

THE COLLEGE OF WILLIAM AND MARY

IN

VIRGINIA

TWO HUNDRED AND SEVENTY-SECOND YEAR

1964-1965

ANNOUNCEMENTS 1965-1966

THE COVER: Shown on the cover is The Mace presented to the College by its alumni and students in 1923. The Mace is of silver, four feet long and contains twelve sections each bearing the following symbols and names pertinent to the history and singularity of the College: (1) An American Eagle, (2) A Sphere symbolizing unity, (3) The Coat of Arms granted to the College by the College of Heralds, May 14, 1694, (4) Arms of the Chancellors, (5) The Seven Seals of Colonial Virginia, (6) Three College Medals, including Phi Beta Kappa, 1776, (7) Names of twenty-eight noted alumni, (8) The Earth, (9) The Colonial Governors of Virginia, (10) Indian Head emblems, (11 and 12) The Staff upon the upper part of which are the names of the Presidents of the College.

FRONTISPIECE: A tablet in the Arcade of the Sir Christopher Wren Building, and The Sir Christopher Wren Building, the oldest academic structure in the United States.

Bulletin of The College of William and Mary—Catalogue Issue

Vol. 59, No. 6 April, 1965

Entered at the Post-Office at Williamsburg, Virginia, July 3, 1926, under an Act of August 24, 1912, as second-class matter. Issued eleven times: January, February, three issues in March, one issue in April, two issues in June, one issue in July, one issue in August, and one in December.

PRIORITIES
OF THE COLLEGE OF WILLIAM AND MARY.

Chartered February 8, 1693, by King William and Queen Mary.
Main building designed by Sir Christopher Wren.

FIRST College in the United States in its antecedents, which go back to the College proposed at Henrico (1619). Second to Harvard University in actual operation.

FIRST American College to receive its charter from the Crown under the Seal of the Privy Council, 1693. Hence it was known as "their Majesties' Royal College of William and Mary."

FIRST and ONLY American College to receive a Coat-of-Arms from the College of Heralds, 1694.

FIRST College in the United States to have a full Faculty consisting of a President, six Professors, usher, and writing master, 1729.

FIRST College to confer medallic prizes: the gold medals donated by Lord Botetourt in 1771.

FIRST College to establish an inter-collegiate fraternity, the Phi Beta Kappa, December 5, 1776.

FIRST College to have the Elective System of study, 1779.

FIRST College to have the Honor System, 1779.

FIRST College to become a University, 1779.

FIRST College to have a school of Modern Languages, 1779.

FIRST College to have a school of Municipal and Constitutional Law, 1779.

FIRST College to teach Political Economy, 1784.

FIRST College to have a school of Modern History, 1803.

Presented by the Colonial Capital Branch of
The Association for the
Preservation of Virginia Antiquities.
1914.





Bulletin of The College of William and Mary in Virginia

VOLUME 59 APRIL 1965 NUMBER 6

TWO HUNDRED AND SEVENTY-SECOND YEAR

1964-1965

Announcements, Session 1965-1966

WILLIAMSBURG, VIRGINIA

CORRESPONDENCE DIRECTORY

To facilitate prompt attention, inquiries should be directed to the following:

ADMISSIONS
Robert P. Hunt, *Dean of Admissions*

ANNUITIES AND GIFTS
Davis Y. Paschall, *President*

BUSINESS MATTERS, FEES AND EXPENSES
Robert T. English, Jr., *Bursar*

EMPLOYMENT OF STUDENTS, STUDENT LOANS, SCHOLARSHIPS, VETERANS' AFFAIRS
John C. Bright, *Director of Student Aid*

GENERAL MATTERS OF COLLEGE INTEREST
Davis Y. Paschall, *President*

GRADUATE STUDIES
Head of the Department or School concerned

LAW SCHOOL
Joseph Curtis, *Dean*

LIBRARY
JAMES A. SERVIES, *Librarian*

PUBLIC RELATIONS
Director of Development

RECORDS AND TRANSCRIPTS
DUDLEY M. JENSEN, *Registrar*

SUMMER SCHOOL AND EXTENSION
Donald J. Herrmann, *Director of the Summer Session and of Extension*

CONTENTS

	Page
COLLEGE CALENDAR	v
PRESIDENTS OF THE COLLEGE	vii
CHANCELLORS OF THE COLLEGE	viii
HISTORY OF THE COLLEGE	1
THE HONOR SYSTEM	6
OFFICERS OF THE COLLEGE	8
Board of Visitors	8
Standing Committees of the Board of Visitors	8
Officers of Administration	9
Instructional Staff	11
Library Staff	34
Health Service Staff	34
Committees of the Faculty	35
COLLEGE CAMPUS AND BUILDINGS	37
THE LIBRARY	41
STUDENT LIFE	43
SUPERVISION OF STUDENTS AND COLLEGE REGULATIONS	54
STUDENT PERSONNEL SERVICES	65
THE SOCIETY OF THE ALUMNI	68
FEES AND EXPENSES	70
ADMISSION TO THE COLLEGE	76
REQUIREMENTS FOR DEGREES	84
COURSES OF INSTRUCTION	96
THE SCHOOL OF EDUCATION	133
MARSHALL-WYTHE SCHOOL OF LAW	189
THE SCHOOL OF MARINE SCIENCE	208
RESERVE OFFICERS' TRAINING CORPS	233
PRE-PROFESSIONAL PROGRAMS	307

	Page
INSTITUTE OF EARLY AMERICAN HISTORY AND CULTURE	318
SPACE LABORATORY, OPERATION AND MANAGEMENT	320
THE MARSHALL-WYTHE SCHOOL OF GOVERNMENT AND CITIZENSHIP	321
THE COLLEGE NEWS BUREAU	321
THE 1965 SUMMER SESSION	322
THE EVENING COLLEGE	325
THE EXTENSION DIVISION	327
THE WILLIAM AND MARY ENDOWMENT FUND	329
GIFTS AND BEQUESTS	330
SCHOLARSHIPS: LOANS AND STUDENT EMPLOYMENT	333
PRIZES AND HONOR AWARDS	346
DEGREES CONFERRED	350
Regular Session 1963-1964	350
Summer Session 1964	371
ENROLLMENT—SESSION 1964-1965	379
GEOGRAPHICAL DISTRIBUTION OF STUDENTS	379
Session 1964-1965	379
Summer Session 1964	380
INDEX	382

COLLEGE CALENDAR

1965-1966

1965 — First Semester

September 12-15	Orientation Period (Sunday-Wednesday)
September 16	Freshman Registration (Thursday)
September 17-18	Registration of all other students (Friday-Saturday)
September 20	Beginning of classes: 8:00 a.m. (Monday)
September 24	Opening Convocation: 11:00 a.m. (Friday)
September 25	Last day for Course or Section changes (Saturday)
October 23	Homecoming Day, a holiday (Saturday)
November 17	Mid-semester reports filed with Registrar: 9:00 a.m. (Wednesday)
November 24	Beginning of Thanksgiving holiday: 1:00 p.m. (Wednesday)
November 29	End of Thanksgiving holiday: 8:00 a.m. (Monday)
December 18	Beginning of Christmas recess: 1:00 p.m. (Saturday)

1966

January 4	End of Christmas recess: 8:00 a.m. (Tuesday)
January 14	End of classes: 5 p.m. (Friday)
January 17-28	Semester Examinations (Monday-Friday)

Second Semester

February 3-4	Registration of all students (Thursday-Friday)
February 7	Beginning of classes: 8:00 a.m. (Monday)
February 12	Charter Day Convocation: 11:00 a.m. (Saturday)
February 14	Last day for Course or Section changes (Monday)
March 26	Beginning of Spring recess: 1:00 p.m. (Saturday)
April 4	End of Spring recess: 8:00 a.m. (Monday)
April 6	Mid-semester reports filed with Registrar: 9:00 a.m. (Wednesday)

April 27	Spring Convocation 11:00 a.m. (Wednesday)
May 24	End of classes: 5:00 p.m. (Tuesday)
May 26-June 7	Final Examination period (Thursday-Tuesday)
June 12	Commencement Day (Sunday)

SUMMER SESSION

June 20	Beginning of Summer Session (Monday)
August 19	End of Summer Session (Friday)

1965

JANUARY

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

FEBRUARY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28						

MARCH

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

APRIL

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

MAY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

JUNE

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

JULY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

AUGUST

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

SEPTEMBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

OCTOBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

NOVEMBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

DECEMBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

1966

JANUARY

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

FEBRUARY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

MARCH

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

APRIL

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

MAY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

JUNE

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

JULY

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

AUGUST

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

SEPTEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

OCTOBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

NOVEMBER

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

DECEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

The Presidents of The College of William and Mary in Virginia

James Blair, 1693-1743

William Dawson, 1743-1752

William Stith, 1752-1755

Thomas Dawson, 1755-1760

William Yates, 1761-1764

James Horrocks, 1764-1771

John Camm, 1771-1777

James Madison, 1777-1812

John Bracken, 1812-1814

John Augustine Smith, 1814-1826

William H. Wilmer, 1826-1827

Adam Empie, 1827-1836

Thomas Roderick Dew, 1836-1846

Robert Saunders, 1847-1848

Benjamin S. Ewell, 1848-1849

John Johns, 1849-1854

Benjamin S. Ewell, 1854-1888

Lyon G. Tyler, 1888-1919

Julian A. C. Chandler, 1919-1934

John Stewart Bryan, 1934-1942

John Edwin Pomfret, 1942-1951

Alvin Duke Chandler, 1951-1960

Davis Young Paschall, 1960-

The Chancellors of The College of William and Mary in Virginia

Henry Compton, Bishop of London, 1693-1700

Thomas Tenison, Archbishop of Canterbury, 1700-1707

Henry Compton, Bishop of London, 1707-1713

John Robinson, Bishop of London, 1714-1721

William Wake, Archbishop of Canterbury, 1721-1729

Edmund Gibson, Bishop of London, 1729-1736

William Wake, Archbishop of Canterbury, 1736-1737

Edmund Gibson, Bishop of London, 1737-1748

Thomas Sherlock, Bishop of London, 1749-1761

Thomas Hayter, Bishop of London, 1762

Charles Wyndham, Earl of Egremont, 1762-1763

Philip Yorke, Earl of Hardwicke, 1764

Richard Terrick, Bishop of London, 1764-1776

George Washington, First President of the United States, 1788-1799

John Tyler, Tenth President of the United States, 1859-1862

Hugh Blair Grigsby, Historian, 1871-1881

John Stewart Bryan, Twentieth President of the College of William and Mary, 1942-1944

Colgate W. Darden, Jr., Governor of Virginia, 1946-1947

Alvin Duke Chandler, Twenty-second President of the College of William and Mary, 1962-

HISTORY OF THE COLLEGE

A FEW YEARS after the founding of Jamestown, a movement was started in England and in Virginia to establish a college, and its construction actually was begun at the city of Henrico on the James River, ten miles below the present city of Richmond. The Indian massacre of 1622 disrupted these plans, but the idea persisted. In 1661, the General Assembly of Virginia provided for the establishment of a "Colledge," but the plan was not carried out; it was not until 1693 that the College of William and Mary in Virginia was chartered by the joint sovereigns whose names it bears. The Bishop of London was named its first chancellor, and Reverend James Blair became the first president, occupying this office until his death fifty years later. In 1695, while Jamestown was still the capital of Virginia, construction of the new college was begun at Middle Plantation, located midway between the James and York rivers. The Wren Building, the oldest academic building in continuous use in the United States, was constructed from plans supplied by Sir Christopher Wren, and for many years it provided living quarters and classroom facilities for the entire college. From 1700 to 1705, it was the meeting place for the General Assembly of Virginia. In 1699, Middle Plantation became Williamsburg and the capital of Virginia.

Holding a royal charter, with arms granted by the College of Heralds, the College of William and Mary enjoyed the benefit of royal favor and of the deep interest of the General Assembly of Virginia, which granted it the income from certain import and export duties. Until the American Revolution, it was, perhaps, the wealthiest college in America. While the charter provided for a president and six masters, or professors, it was not until 1729 that all these professorships were established. The chairs were: Divinity, Philosophy, Oriental Languages, Mathematics, Grammar School, and the Indian School. The Indian School, endowed from a large estate which Robert Boyle, the eminent English physicist and formulator of "Boyle's Law," left for "pious and religious uses," was housed in the Brafferton, built in 1723, and named for a manor in Yorkshire, from which most of its revenue was derived. The Indian School languished, however, and failed to survive the Revolution. In 1705, the Wren Building was de-

stroyed by fire. It was rebuilt on the original foundation and completed about 1716. In 1732, the chapel wing of the Wren Building was opened, and the foundation of the President's House was laid. In 1776, Phi Beta Kappa, the first Greek-letter fraternity in an American college, was founded by a group of students in the College. In 1779, the first Honor System was instituted, and in the same year came the sharpest break with academic tradition. Under the influence of Thomas Jefferson, then Governor of Virginia, the curriculum was severely revised: a school of law was established, the first school of law in America and the second in the English-speaking world; the old departments were replaced by professorships of Anatomy and Medicine, Natural Philosophy and Mathematics, Moral Philosophy and Fine Arts, and Modern Languages.

When the Colonies resisted the policies of the British Crown, William and Mary, although wealthy and under royal patronage, chose to risk the loss of material substance for principle. Taking an active part in the events accompanying the Revolution and the founding of the Republic, the College supplied such leaders as Thomas Jefferson, James Monroe, Peyton Randolph, Richard Bland, John Marshall, and Benjamin Harrison to the cause of Independence. Although George Washington never attended William and Mary, he received his surveyor's commission from the College, and served as its Chancellor from 1789 until his death.

In 1781, during the memorable Yorktown campaign, academic life was interrupted temporarily, the buildings being occupied, in turn, by the army of Cornwallis and by our French allies. The President's House, built in 1732, and occupied by every President of the College, was accidentally burned, in part, by the French troops. It was later restored by Louis XVI.

Following the war, William and Mary was seriously impoverished by the loss of its invested funds and of the income from duties granted by the General Assembly of Virginia. Under the able administration of Bishop James Madison, cousin to President James Madison, the College recovered rapidly, and during the presidency of Thomas Roderick Dew (1836-46) reached its peak enrollment until comparatively recent times. In 1854, Benjamin Stoddert Ewell became President. On the 166th anniversary of the founding, the interior of the Wren Building was burned a

second time; some early documents, including the original charter, all of the library, and the chemical laboratory, were destroyed.

With the advent of war in 1861, the College closed, and the President, faculty, and student body entered the Confederate service. Again the academic halls echoed to the tramp of soldiers, the buildings being occupied successively by both the Confederate and Union armies. In 1862, the Wren Building was burned a third time when Union troops, acting without orders, set fire to the structure. With the return of peace in 1865, the College was reopened by President Ewell. With resources gone, students and faculty scattered, the main building with the library burned, William and Mary was an example of the devastation of war. Heroically, Colonel Ewell fought an apparently losing fight, and although somewhat rehabilitated, the College was forced, in 1881, to suspend operations for lack of funds. The charter was kept alive by President Ewell, who rang the College bell to mark the opening of every term, though only a handful of students remained for gratuitous instruction.

In 1888, with a State grant of $10,000 the College revived under the presidency of Lyon G. Tyler, son of John Tyler, former President of the United States. In 1906, it became a State institution, and its control was placed under a Board of Visitors appointed by the Governor of Virginia. It became coeducational in 1918. During the administration of Julian Alvin Carroll Chandler (1919-1934), an alumnus, the facilities were increased tenfold, the student body growing from 130 to 1,300, with a faculty of nearly one hundred. The College also expanded to include a Division in Richmond (1925), now the Richmond Professional Institute, and a Norfolk Division (1930).

Between 1928 and 1932 the three earliest buildings, the Wren Building, the Brafferton, and the President's House, were restored to their original appearance through the generosity of John D. Rockefeller, Jr.

President Chandler was succeeded, in 1934, by John Stewart Bryan as the twentieth President, who continued the expansion of the facilities of the College. Shortly after the United States entered the Second World War, Mr. Bryan retired, to become the fourth American chancellor. He was followed by President John Edwin Pomfret, who guided William and Mary through the grim days of the war-years. For a period the ancient walls resounded to

the marching feet of an Army Specialized Training Program unit. A school for the training of Naval Chaplains was established on the campus and continued to the end of the war. The College experienced the general abnormal expansion following 1946, when the returning veterans increased the enrollment, for a time, to slightly over the 2,000 mark. In 1943, the Institute of Early American History and Culture was formed by the union of the historical resources of the College and Colonial Williamsburg, Inc. This organization of scholars is devoted to study and research in Colonial American history; its purpose is "to promote sound interpretation of the American heritage on all levels."

President Pomfret was followed by Vice Admiral Alvin Duke Chandler, who became the twenty-second President in October, 1951. In September, 1954, the Department of Jurisprudence became the Marshall-Wythe School of Law.

The General Assembly of Virginia at the 1960 Session established the system, The Colleges of William and Mary, and provided for an expanded Board of Visitors and the appointment of a Chancellor. Under this new system the College retained its ancient and official name, *The College of William and Mary in Virginia.* The other colleges, separate but integral parts of the system were: The Richmond Professional Institute, Richmond, The Norfolk College of William and Mary, Norfolk, Christopher Newport College, Newport News, and Richard Bland College in Southside (Petersburg area), the latter two institutions being two-year colleges.

Alvin Duke Chandler, who was appointed Chancellor of the new system, was succeeded on August 16, 1960, by Davis Y. Paschall who became the twenty-third President of the College. In 1961, the Department of Education became the School of Education and the Department of Marine Science became the School of Marine Science.

Legislation enacted at the 1962 session of the General Assembly disestablished the system, The Colleges of William and Mary, and reconstituted the four-year colleges, The Richmond Professional Institute and the Norfolk College of William and Mary, as independent institutions under control of separate boards. It was further provided that the two-year colleges at Newport News and Petersburg be supervised by a coordinator under the jurisdiction of the Board of Visitors, and that the ancient

College of William and Mary be continued independently and encouraged to strengthen its program in the liberal arts and sciences, and develop the advanced professional and graduate programs appropriate to its tradition and competence.

After passing through three fires, the War of the Revolution, the War of 1861, and the economic chaos that followed both, William and Mary has survived, and today, in the unique setting of Williamsburg, with the cultural heritage of the past, and a clear academic vision for the future, it serves Virginia and the nation as it originally served Virginia and the Crown.

So intimately associated is the name of William and Mary with the names of famous Americans, that its history forms an important part of the history of the nation. Among the distinguished William and Mary names in the years subsequent to the great flowering of the eighteenth century are those of John Tyler, President of the United States; John Randolph of Roanoke; Philip Pendleton Barbour; William T. Barry; Alexander H. H. Stuart; William Cabell Rives; John T. Crittenden, author of the Crittenden Compromise; Lieutenant General Winfield Scott, hero of the Mexican War and Commander of the Army of the United States in 1861; Edmund Ruffin, famous Southern agriculturist; James M. Mason of "Mason and Slidell" fame; William B. Taliaferro, Major General, C. S. A.; William Barton Rogers, founder of the Massachusetts Institute of Technology; James Branch Cabell; Admiral Cary T. Grayson, and Admiral John L. Hall, Jr. The roll of fame of William and Mary includes the first president and fifteen members of the Continental Congress, four signers of the Declaration of Independence, three presidents of the United States, one chief justice and three associate justices of the Supreme Court, thirteen Cabinet members, twenty-nine senators, three speakers and fifty-five members of the House of Representatives, eighteen foreign ministers, one lieutenant general, twenty-one governors of Virginia, twenty-two judges of the Virginia Supreme Court of Appeals, besides many others distinguished in civil and military life, in letters, science, education, and the church.

THE HONOR SYSTEM

History

Among the most treasured traditions of the College of William and Mary is the student-administered plan of discipline known as the Honor System. The essence of the Honor System is individual responsibility in all matters involving the student's honor, and the System assumes that every student is concerned with the strict observance of the principles of honorable conduct which he upon matriculation pledges to uphold, for his own sake, for the sake of his fellow students, and for the sake of the College.

The evolution of the Honor System over the years to its present form is best understood when considered against the background of changes in the character of the College itself. The College originally combined the higher school with a grammar school and served almost exclusively the sons of Gentlemen of the planter aristocracy, who took especial pride in their reputation as men of honor. The students formed a small, closely knit group, at times numbering fewer than a hundred; and a violation of the College code of discipline was punished by ostracism. Because of the existence of this gentlemen's code of honor that characterized life and conduct at the College from its beginnings, it is difficult to pinpoint a specific date marking the beginning of the Honor System as a system. It was assuredly emerging in one form or another prior to 1779, when the College was reorganized under Jefferson's leadership, the year often claimed for its official establishment; and minor details of administration have changed from time to time to meet contemporary needs and conditions.

As the College has grown in size and complexity, the student body has become less and less the homogenous group which characterized the earlier years, particularly to the latter part of the nineteenth century. The College no longer serves exclusively young men from restricted or provincial areas of social and economic life, but is a co-educational institution serving several thousand students from all parts of the United States and from foreign counties. It is accepted that honor and responsibility are not absolute, intrinsic human values, but are acquired in a specific environment and are, therefore, relative to that environment.

As a relative value, honor means many different things to many different people. Today, for immediate purposes within the College community, its applications are restricted to four specific areas— lying, stealing, cheating, and failure to report an infraction of which one has firsthand knowledge. This restriction of definition enables the theoretic concept of honor to be applied on a practical level within a heterogeneous body.

Meaning

As numerous bulletins state, the discipline of the College was entirely "in the hands of the President and faculty" until the twentieth century, when student government was instituted at William and Mary. Today the Honor System is student administered through elected councils.

Whereas the present administration of the Honor System by the students through elected councils evolved during the 1920's, the spirit and essence of the Honor System have historically threaded the years undisturbed and, guarded jealously, have remained intact.

OFFICERS OF THE COLLEGE

Board of Visitors

J. B. Woodward, Jr.	*Rector*
W. Brooks George	*Vice Rector*
John P. Harper	*Secretary*

To March 7, 1966

M. Carl Andrews	Roanoke, Virginia
Frank Ernst	Petersburg, Virginia
C. Sterling Hutcheson	Boydton, Virginia
Walter G. Mason	Lynchburg, Virginia
Walter S. Robertson	Richmond, Virginia
J. Asa Shield	Richmond, Virginia
J. B. Woodward, Jr.	Newport News, Virginia

To March 7, 1968

Frank W. Cox	Virginia Beach, Virginia
W. Brooks George	Richmond, Virginia
Ernest Goodrich	Surry, Virginia
John P. Harper	Norfolk, Virginia
Charles K. Hutchens	Newport News, Virginia
Thomas B. Stanley	Stanleytown, Virginia
H. Hudnall Ware, Jr.	Richmond, Virginia

The State Superintendent of Public Instruction, Ex-Officio
Woodrow W. Wilkerson, Richmond, Virginia

Standing Committees of the Board of Visitors

Executive: Mr. Woodward, *Chairman;* Judge Hutcheson; Mr. Mason; Mr. George; Mr. Harper; Mr. Cox.

Buildings and Grounds: Dr. Shield, *Chairman*; Mr. Hutchens; Mr. Mason; Mr. Harper; Mr. Goodrich.

Education: Mr. Andrews, *Chairman*; Judge Hutcheson; Mr. Robertson; Dr. Ware; Mr. Ernst.

Finance: Mr. Ernst, *Chairman;* Mr. George; Mr. Harper; Mr. Mason; Mr. Stanley.

Honorary Degrees: Mr. Woodward, *Chairman;* Mr. George; Judge Hutcheson; Mr. Andrews; Dr. Shield; Dr. Ware; Mr. Robertson.

Development: Mr. Robertson, *Chairman;* Mr. George; Dr. Shield; Mr. Stanley; Mr. Goodrich.

Two-Year Colleges: Mr. Ernst, *Chairman;* Dr. Ware; Mr. Hutchens; Mr. Stanley; Mr. Cox.

Office of the President

Davis Y. Paschall	*President*
W. Melville Jones	*Dean of the College*
John H. Willis, Jr.	*Administrative Assistant*

Educational Administration

W. Melville Jones	*Dean of the College*
Harold L. Fowler	*Dean of the Faculty*
Robert A. Johnston	*Associate Dean of the Faculty*
Robert T. Siegel	*Dean of Graduate Studies*
Donald J. Herrmann	*Director of Extension, Summer Session and Coordinator of Two-Year Colleges*
John S. Quinn	*Director of the Evening Session*

Marshall-Wythe School of Law

Joseph Curtis	*Dean*

School of Education

Howard K. Holland	*Dean*

School of Marine Science

William J. Hargis, Jr.	*Dean*

Business and Plant Administration

Robert T. English, Jr.	*Bursar*
Vernon L. Nunn	*Treasurer-Auditor*
Floyd Whitaker	*Internal Auditor*

Ervin D. Farmer	*Superintendent of Buildings and Grounds*
Charles E. Chandler	*Director of Purchase and Stores*
Dennis K. Cogle	*Personnel Supervisor*

Admissions

Robert P. Hunt	*Dean of Admissions*
Edward E. Jones	*Associate Dean of Admissions*
Harriet E. Reid	*Assistant Dean of Admissions*
Jerry Van Voorhis	*Assistant Dean of Admissions*

Student Personnel Administration

J. Wilfred Lambert	*Dean of Students*
Carson H. Barnes, Jr.	*Dean of Men*
Robert W. Squatriglia	*Assistant Dean of Men*
Birdena E. Donaldson	*Dean of Women*
Sandra Snidow	*Assistant Dean of Women*
Robert E. DeBord, M.D.	*College Physician*
John C. Bright	*Director, Student Aid and Placement*

Registration

Dudley M. Jensen	*Registrar*
Elizabeth R. Stearns	*Assistant Registrar*

Library

James A. Servies	*Librarian*
Earl Gregg Swem	*Librarian Emeritus*

Development and Public Information

(To Be Announced)	*Director of Development and Public Information*
J. P. James, Jr.	*Editor, News Bureau*
James S. Kelly	*Alumni Secretary*

Athletics

H. Lester Hooker, Jr.	*Director of Athletics*

INSTRUCTIONAL STAFF[1]

DAVIS Y. PASCHALL (1960, 1960), *President of the College.* A.B., M.A., College of William and Mary; Ed.D., University of Virginia.

EMILY ELEANOR CALKINS (1953, 1927), *Associate Professor of Mathematics, Emeritus.* A.B., College of William and Mary; M.A., University of Michigan.

JAMES DAVID CARTER, JR. (1930, 1927), *Associate Professor of Modern Languages, Emeritus.* A.B., College of William and Mary; Docteur de l' Université de Toulouse.

GRAVES GLENWOOD CLARK (1953, 1920), *Chancellor Professor of English, Emeritus.* A.B., University of Richmond, LL.B., Richmond College; M.A., Columbia University.

JOSEPH M. CORMACK (1946, 1946), *Professor of Law, Emeritus.* A.B., Northwestern University; LL.B. and J.S.D., Yale University.

ALBERT PETTIGREW ELLIOTT (1957, 1957), *Lecturer in English, Emeritus.* A.B. and M.A., College of William and Mary; M.A., University of North Carolina; Ph.D., University of Pennsylvania.

WAYNE FULTON GIBBS (1931, 1926), *Professor of Accountancy, Emeritus.* B.S. and M.S., University of Illinois; C.P.A.

ANDREW C. HAIGH (1958, 1944), *Professor of Music, Emeritus.* A.B., University of Michigan; M.A. and Ph.D., Harvard University.

ALTHEA HUNT (1955, 1926), *Professor of Fine Arts, Emeritus.* A.B., Allegheny College; M.A., Radcliffe College; Litt.D., Allegheny College.

JEAN STEWART MAJOR (1928, 1928), *Associate Professor of Home Economics, Emeritus.* B.S. and M.A., Columbia University.

---

[1]The first date indicates the year when the present rank was attained; the second date the year when the individual was first appointed to the instructional staff. A third date indicates the year of reappointment. All changes in the Faculty that occurred in the session 1964-1965 through February 1, 1965, are included in this list.

Richard Lee Morton (1921, 1919), *Chancellor Professor of History, Emeritus.* A.B., Hampden-Sydney College; M.A., University of Virginia and Harvard University; Ph.D., University of Virginia; Litt.D., Hampden-Sydney College.

Shirley Donald Southworth (1928, 1927), *Professor of Economics, Emeritus.* A.B., M.A., and Ph.D., Princeton University.

Earl Gregg Swem (1920, 1920), *Librarian, Emeritus.* A.B. and M.A., Lafayette College; Litt.D., Hampden-Sydney College; Litt.D., Lafayette College; LL.D., College of William and Mary.

Albion Guilford Taylor (1928, 1927), *Chancellor Professor of Political Economy, Emeritus.* A.B., Des Moines University; M.A., University of Nebraska; Ph.D., University of Illinois.

Anthony Pelzer Wagener (1929, 1929), *Chancellor Professor of Ancient Languages, Emeritus.* A.B., College of Charleston; Ph.D., The Johns Hopkins University.

Margaret Winder (1959, 1948, 1959), *Assistant Professor of Education, Emeritus.* B.S., Madison College; M.A., College of William and Mary.

William W. Abbot (1963, 1953, 1963), *Professor of History.* A.B., University of Georgia; M.A. and Ph.D., Duke University.

Khamis Abdul-Magid (1964, 1962), *Associate Professor of Economics.* A.B., American University (Cairo); M.A., University of Texas; Ph.D., University of Pennsylvania.

Joseph S. Agee (1963, 1958), *Instructor in Physical Education.* B.S. and M.Ed., College of William and Mary.

Faye Alewynse (1964, 1964), *Lecturer in Women's Physical Education.*

John J. Alewynse, Jr., (1964, 1964), *Instructor in Modern Languages.* A.B., Yale University; M.A., Columbia University.

NATHAN ALTSHULER (1963, 1960), *Associate Professor of Sociology and Anthropology.* A.B., University of Michigan; Ph.D., Harvard University.

CHARLES HARPER ANDERSON (1957, 1946), *Lecturer in Law.* A.B. and B.C.L., College of William and Mary; LL.M., University of Virginia.

JAY D. ANDREWS (1959, 1946), *Professor of Marine Science.* B.S., Kansas State College; M.Ph. and Ph.D., University of Wisconsin.

ALFRED R. ARMSTRONG (1961, 1933), *Professor of Chemistry.* B.S. and M.A., College of William and Mary; Ph.D., University of Virginia.

HOWARD H. ASHBURY (1960, 1960), *Lecturer in Psychology,* B.S. and M.D., University of Virginia.

THOMAS CONNER ATKESON (1954, 1954), *Professor of Taxation.* B.S., M.S. and Ph.D., Georgetown University.

HARRY E. ATKINSON (1962, 1962), *Lecturer in the Marshall-Wythe School of Law.* George Washington University and F.B.I. National Academy; Law Certificate, Marshall-Wythe School of Law.

ROBERT SYDNOR BAILEY (1959, 1951), *Assistant Professor of Marine Science.* B.S., Randolph-Macon College; M.S., College of William and Mary.

JOHN T. BALDWIN, JR. (1946, 1937, 1946), *Professor of Biology.* A.B., College of William and Mary; Ph.D., University of Virginia.

DONALD L. BALL (1960, 1960), *Instructor in English.* A.B., University of Richmond; M.A., University of Delaware.

J. WORTH BANNER, (1951, 1949, 1964), *Associate Professor of Modern Languages.* B.S., Roanoke College; M.A., and Ph.D., University of North Carolina.

MARTHA ELIZABETH BARKSDALE (1936, 1921), *Associate Professor of Physical Education.* O.D., Gymnastic Peoples College, Ollerup, Denmark; A.B. and M.A., College of William and Mary.

MILDRED BARRETT (1963, 1959), *Assistant Professor of Physical Education for Women.* B.S., Georgia State College for Women; M.A., University of Maryland.

ROBERT A. BARRY (1964, 1964), *Instructor in Economics.* A.B., Stanford University; M.A., Yale University.

JAMES RUSH BEELER (1964, 1964), *Assistant Professor of Modern Languages.* A.B., M.A. and Ph.D., University of North Carolina.

ROBERT R. BENTON (1964, 1964), *Instructor in English.* A.B. and M.A., University of North Carolina.

KENNETH F. BICK (1961, 1961), *Associate Professor of Geology.* B.S., M.S. and Ph.D., Yale University.

MARY ANN BIETER (1963, 1963), *Instructor in Modern Languages.* A.B., The College of St. Catherine; M.A., University of Minnesota.

ROBERT E. L. BLACK (1959, 1959), *Associate Professor of Biology and Marine Science.* A.B. and M.A., Northeast Oklahoma A&M; Ph.D., University of Washington.

GRACE J. BLANK (1964, 1931), *Professor of Biology.* A.B., Maryville College; M.S., University of Michigan.

MORRIS L. BREHMER (1961, 1959), *Professor of Marine Science.* B.S., Eastern Illinois University; M.S. and Ph.D., Michigan State University.

JOSEPH LANCASTER BRENT, III (1964, 1964), *Assistant Professor of History.* A.B., Princeton University; Ph.D., University of California, Los Angeles.

GARNETT R. BROOKS, JR. (1963, 1962), *Assistant Professor of Biology.* B.S. and M.S., University of Richmond; Ph.D., University of Florida.

MITCHELL A. BYRD (1963, 1956), *Professor of Biology.* B.S., M.S. and Ph.D., Virginia Polytechnic Institute.

JOHN T. CACCIAPAGLIA (1962, 1962), *Instructor in English.* A.B. and M.A., University of Virginia.

Lester J. Cappon (1946, 1945), *Lecturer in History.* A.B. and M.A., University of Wisconsin; M.A. and Ph.D., Harvard University.

Jane Carson (1963, 1963), *Lecturer in History.* A.B., Flora Macdonald College; M.A. and Ph.D., University of Virginia.

Benjamin Ralph Cato (1961, 1955), *Associate Professor of Mathematics.* A.B. and M.A., Duke University.

William B. Chambers, Jr. (1963, 1957), *Assistant Professor of Physical Education.* B.S., College of William and Mary.

Royce W. Chesser (1962, 1962), *Associate Professor of Education.* A.B., Wake Forest; M.Ed., College of William and Mary.

I-Kua Chou (1959, 1949), *Professor of Government.* LL.B., National Fuh-tan University; M.A. and Ph.D., Fletcher School of Law and Diplomacy.[1]

Richard Pierre Claude (1964, 1964), *Assistant Professor of Government.* A.B., College of St. Thomas; M.S., Florida State University; Ph.D., University of Virginia.

Paul N. Clem (1959, 1959), *Associate Professor of Education.* A.B., Bridgewater College; M.A. and Ed.D., Michigan State University.

Stephen C. Clement (1964, 1964), *Assistant Professor of Geology.* A.B., Cornell University; M.S., University of Utah; Ph.D., Cornell University.

James W. Coke (1964, 1957), *Associate Professor of Modern Languages.* A.B., Western Kentucky State College; M.A. and Ph.D., Indiana University.

Henry E. Coleman (1964, 1964), *Instructor in Fine Arts.* A.B., College of William and Mary; M.A., State University of Iowa.

Luther Thomas Conner, Jr. (1964, 1964), *Assistant Professor of Mathematics.* B.S., Virginia Polytechnic Institute; M.A., University of North Carolina.

[1]On leave of absence, 1964-1965.

Richard W. Copeland (1961, 1961), *Associate Professor of Education.* B.S., College of William and Mary; M.Ed. and Ed.D., University of Florida.

Eleanor Quinn Corbett (1964, 1964), *Instructor in Women's Physical Education.* B.S., Boston University, Sargent College; M.Ed., Boston University.

Hibbert Dell Corey (1943, 1929), *Professor of Economics and Business Administration.* A.B., University of Michigan; M.A., Ohio State University.

Theodore Crane (1964, 1964), *Visiting Instructor in Ancient Languages.* A.B., M.A. and Ph.D., University of North Carolina.

George W. Crawford (1960, 1960), *Associate Professor of Physics.* B.S., Davidson College; M.S., University of North Carolina; Ph.D., Ohio State University.

Frederick R. Crownfield, Jr. (1957, 1956), *Associate Professor of Physics.* A.B., Harvard University; M.S. and Ph.D., Lehigh University.

Joseph Curtis (1953, 1948), *Professor of Law.* B.S., LL.B. and LL.M., New York University.

James S. Darling (1961, 1961), *Lecturer in Music.* A.B., Yale University; B.M., Yale School of Music; M.M., University of Michigan.

Charles Edward Davidson (1964, 1949), *Professor of English.* A.B., Princeton University; M.A. and Ph.D., Yale University.

William F. Davis, Jr. (1964, 1960), *Assistant Professor of English.* A.B., Princeton University; M.A. and Ph.D., Yale University.

William Jackson Davis (1963, 1963), *Associate Professor of Marine Science.* B.S., Virginia Polytechnic Institute; Ph.D., University of Kansas.

Hubert A. Daw (1961, 1961), *Assistant Professor of Psychology, Associate Electrical Engineer.* College of William and Mary (Norfolk).

PETER L. DERKS (1960, 1960), *Assistant Professor of Psychology.* A.B., Knox College; M.A., Harvard University; Ph.D., University of Pennsylvania.

EDMOND T. DERRINGE (1963, 1957), *Instructor in Physical Education.* B.S., Georgetown University; M.Ed., College of William and Mary.

CARL R. DOLMETSCH (1963, 1959), *Associate Professor of English.* A.B. and M.A., Drake University; Ph.D., University of Chicago.[1]

BIRDENA E. DONALDSON (1956, 1956), *Associate Professor of History.* A.B., Franklin College; M.A., Northwestern University; Ed.D., Columbia University.

HUGH B. EASLER (1962, 1962), *Assistant Professor of Mathematics.* A.B., Wofford College; M.S., University of South Carolina.

MORTON ECKHAUSE (1964, 1964), *Research Assistant Professor of Physics.* A.B., New York University; M.S. and Ph.D., Carnegie Institute of Technology.

JACK D. EDWARDS (1962, 1962), *Assistant Professor of Government.* A.B., Macalester College; LL.B., Harvard Law School.

H. MARGARET ELLIOTT (1964, 1964), *Acting Professor of Mathematics.* A.B., Rice University; M.A., University of California, Berkeley; Ph.D., Radcliffe College.

NATHANIEL Y. ELLIOTT (1963, 1963), *Instructor in English.* B.S., State University of New York, Fredonia; M.A., Syracuse University.

ANTHONY J. ESLER (1962, 1962), *Assistant Professor of History.* A.B., University of Arizona; M.A. and Ph.D., Duke University.

FRANK BROOKE EVANS III (1961, 1947), *Professor of English.* A.B., Amherst College; M.A. and Ph.D., Princeton University.

[1]On leave of absence, 1964-1965.

Carl A. Fehr (1961, 1945), *Professor of Music.* A.B. and M.A., University of Texas; M.Mus., University of Michigan; Ed.D., Columbia University.

Mark Roy Feix (1964, 1964), *Visiting Professor of Physics.* Ph.D., University of Paris.

Emeric Fischer (1964, 1964), *Instructor in Law.* B.S., University of South Carolina; B.C.L. and L&T.M., College of William and Mary.

Edwin D. Floyd (1962, 1962), *Instructor in Ancient Languages.* A.B., Yale University; M.A. and Ph.D., Princeton University.

Lewis A. Foster, Jr. (1962, 1954, 1955), *Associate Professor of Philosophy.* A.B. and M.A., University of Virginia.

Harold Lees Fowler (1946, 1934), *Professor of History.* A.B., Dartmouth College; M.A. and Ph.D., Harvard University.

John Thatcher French (1961, 1961), *Instructor in English.* A.B., St. Vincent College; M.A., The Johns Hopkins University.

Herbert Friedman (1963, 1963), *Assistant Professor of Psychology.* A.B., Brooklyn College; M.A. and Ph.D., University of Connecticut.

Herbert Funsten (1963, 1963), *Research Associate Professor of Physics.* A.B., M.A. and Ph.D., University of Virginia.

Alice Carol Gaar (1962, 1962), *Instructor in Modern Languages.* A.B. and B.S., Louisiana State University; M.A., Columbia University.

Armand J. Galfo (1961, 1958), *Associate Professor of Education.* A.B., M.Ed. and Ed.D., University of Buffalo.

Martin A. Garrett (1963, 1963), *Assistant Professor of Economics.* B.S., Middle Tennessee State College.

Nancy Lee Gates (1964, 1964), *Assistant Professor of Sociology and Anthropology.* A.B., Oberlin College; M.A., University of North Carolina.

William Lee Godshalk (1964, 1964), *Assistant Professor of English.* A.B., Ursinus College; M.A. and Ph.D., Harvard University.

Leon Golden (1961, 1959), *Assistant Professor of Ancient Languages.* A.B., M.A. and Ph.D., University of Chicago.[1]

Mariano Gonzales-Aboin (1961, 1961), *Instructor in Modern Languages.* M.A., School of Political Science, University of Madrid; Master of Law, University of Madrid.

Bruce K. Goodwin (1963, 1963), *Assistant Professor of Geology.* A.B., University of Pennsylvania; M.S. and Ph.D., Lehigh University.

David J. Gray (1962, 1959), *Associate Professor of Sociology and Anthropology.* A.B., M.A. and Ph.D., Pennsylvania State University.

Pincus Gross (1964, 1964), *Assistant Professor of Psychology.* A.B. and M.A., University of Florida.

Harry R. Groves (1963, 1956), *Instructor in Physical Education.* B.S., Temple University; M.Ed., College of William and Mary.

Ira D. Gruber (1962, 1962), *Instructor in History.* A.B., M.A. and Ph.D., Duke University.

William George Guy (1930, 1925), *Chancellor Professor of Chemistry.* B.Sc., Mt. Allison University, Canada; A.B., Oxford University, England; Ph.D., University of Chicago.

Albert E. Haak (1959, 1947), *Associate Professor of Theatre and Speech.* A.B., Lawrence College; M.A., College of William and Mary.

Arthur E. Haase (1963, 1963), *Instructor in Modern Languages.* A.B., Beloit College; M.A., Yale University.

Gustav W. Hall (1963, 1963), *Assistant Professor of Biology.* A.B. and M.S., Ohio State University.

Margaret Hamilton (1964, 1953), *Associate Professor of Government.* A.B., University of Michigan; M.A. and Ph.D., Columbia University.

[1]On leave of absence, 1964-1965.

Ben A. Hammack (1958, 1958), *Lecturer in Psychology.* A.B. and M.A., University of Texas.

Eugene Rae Harcum (1961, 1958), *Associate Professor of Psychology.* B.S., College of William and Mary; M.A., The Johns Hopkins University; Ph.D., University of Michigan.

William J. Hargis, Jr. (1959, 1955), *Professor of Marine Science.* A.B. and M.A., University of Richmond; Ph.D., Florida State University.

Bryant E. Harrell (1958, 1956), *Associate Professor of Chemistry.* B.S., Randolph-Macon College; M.A. and Ph.D., The Johns Hopkins University.[1]

Russell T. Hastings (1962, 1958), *Assistant Professor of Theatre and Speech.* B.F.A., Washington University; M.F.A., Yale University.

Dexter S. Haven (1959, 1949), *Associate Professor of Marine Science.* B.S. and M.S., Rhode Island State College.

Paul W. Heeman (1962, 1962), *Instructor in English.* A.B. and M.A., University of North Carolina.

Dorothy J. Heissenbuttel (1964, 1964), *Instructor in English.* A.B., Gettysburg College; M.A., Harvard University.

Donald J. Herrmann (1963, 1951), *Professor of Education.* B.Ed., Northern Illinois University; M.A. and Ph.D., Michigan State University.

Trevor B. Hill (1963, 1963), *Associate Professor of Chemistry.* B.S., University of Alberta, Canada; Ph.D., Cornell University.

E. Lewis Hoffman (1961, 1947), *Associate Professor of Modern Languages.* B.S., Roanoke College; M.A. and Ph.D., George Washington University.

Julian L. Hogan, Lt. Col. Arty. (1963, 1963), *Professor of Military Science.* A.B., Creighton University.

Howard K. Holland (1958, 1948), *Professor of Education.* A.B., M.A. and Ph.D., University of Michigan.

[1]On leave of absence, 1964-1965.

H. Lester Hooker (1963, 1963), *Assistant Professor of Physical Education.* A.B., M.Ed., College of William and Mary.

Carol Ann Hubert (1963, 1963), *Instructor in English.* A.B., College of the Holy Names; M.A., University of North Carolina.

Marie L. Hunken (1963, 1963), *Lecturer in Biology.* B.S., College of William and Mary.

Roderick Airth Ironside (1960, 1960), *Assistant Professor of Education.* A.B., Cornell University; M.A. and Ph.D., University of Michigan.

David Clay Jenkins (1964, 1956), *Associate Professor of English.* A.B. and M.A., University of Alabama; Ph.D., State University of Iowa.

Dudley M. Jensen (1962, 1951), *Associate Professor of Physical Education for Men.* B.S., Springfield College; M.A., Teachers College, Columbia University.

Ludwell H. Johnson (1961, 1958), *Associate Professor of History.* A.B. and Ph.D., The Johns Hopkins University.

Lestine Rebecca Johnston (1964, 1964), *Instructor in Modern Languages.* B.S. and M.A., University of Virginia.

Robert A. Johnston (1963, 1963), *Associate Professor of Psychology.* A.B., Haverford College; M.A. and Ph.D., State University of Iowa.

Gilbert C. Jones (1964, 1964), *Assistant Professor of Business Administration.* A.B. and M.B.A., Wharton School, University of Pennsylvania.

J. Ward Jones (1961, 1961), *Associate Professor of Ancient Languages.* A.B., University of Richmond; M.A. and Ph.D., University of North Carolina.

W. Melville Jones (1953, 1928), *Professor of English.* A.B., Allegheny College; M.A., Ohio State University; Ph.D., Harvard University.

E. B. Joseph (1961, 1959), *Professor of Marine Science.* B.S., University of Florida; M.S. and Ph.D., Florida State University.

Alexander Kallos (1964, 1949), *Professor of Modern Languages.* S.C.L., Vienna Commercial Academy; M.A. and Ph.D., University of Pennsylvania.

John Robert Kane (1964, 1964), *Physics Research Associate.* B.S., Loyola University; M.S. and Ph.D., Carnegie Institute of Technology.

Edward Katz (1962, 1952), *Instructor in Chemistry.* B.S., College of William and Mary.

Donald Kendall (1964, 1964), *Instructor in English.* A.B., College of William and Mary; M.A., Columbia University.

Robert Kernell (1958, 1958), *Assistant Professor of Physics.* A.B., Wofford College; M.S., University of South Carolina.[1]

R. Wayne Kernodle (1953, 1945), *Professor of Sociology and Anthropology.* A.B., M.A. and Ph.D., University of North Carolina.

Edward L. Kessler (1963, 1963), *Instructor in English.* A.B., University of Virginia; M.A., Rutgers University.

Chongham Kim (1964, 1964), *Visiting Assistant Professor of Government.* A.B., M.A. and Ph.D., Indiana University.

Jerome C. Kindred (1962, 1962), *Instructor in English.* A.B., Harvard University; M.A., University of Pennsylvania.

Algin B. King (1959, 1955), *Professor of Business Administration.* A.B., University of South Carolina; M.S., New York University.

Glenn Garrett Kirk (1961, 1961), *Instructor in Theatre and Speech.* A.B., Dartmouth College.

John Vaness Koman (1963, 1963), *Lecturer in Music.*

Reino Korpi (1952, 1947), *Associate Professor of Modern Languages.* A.B., Clark University; M.A., University of Wisconsin.

Liliane Krebs (1963, 1963), *Instructor in Modern Languages.* A.B., University of Paris (Sorbonne); M.A., Florida State University.

[1]On leave of absence, 1964-1965.

ALEXANDER I. KURTZ (1962, 1962), *Assistant Professor of Modern Languages.* Licentiate, Leopold-Francis University, Innsbruck, Austria; M.A., Rutgers University; Ph.D., Leopold-Francis University.

MICHAEL H. KUTNER (1962, 1962), *Assistant Professor of Mathematics.* B.S., Central Connecticut State College; M.A., Virginia Polytechnic Institute.

JOHN LACHS (1962, 1959), *Associate Professor of Philosophy.* A.B. and M.A., McGill University; Ph.D., Yale University.

J. WILFRED LAMBERT (1959, 1931), *Professor of Psychology.* A.B., College of William and Mary.

JAMES D. LAWRENCE, JR. (1962, 1960), *Associate Professor of Physics.* B.S., Virginia Military Institute; M.A. and Ph.D., University of Virginia.

SYDNEY H. LAWRENCE (1961, 1961), *Assistant Professor of Mathematics.* A.B., M.A. and Ph.D., University of Virginia.

JAMES J. LEACH (1963, 1963), *Instructor in Philosophy.* A.B., Heidelberg College; M.A., Trinity University (Texas).

LAWRENCE C. LEONARD (1957, 1955), *Lecturer in Mathematics.* B.S., U. S. Military Academy.

VICTOR A. LIGUORI (1964, 1964), *Instructor in Sociology and Anthropology.* A.B., Haverford College; M.A., Princeton University.

MONT LINKENAUGER (1963, 1960), *Assistant Professor of Physical Education for Men.* B.S. and M.Ed., College of William and Mary; R.P.T., Medical College of Virginia.

JESSE S. LOCKABY, JR. CAPTAIN, Q.M.C. (1964, 1964), *Assistant Professor of Military Science.* B.S., Davidson College.

JOHN H. LONG (1955, 1955), *Assistant Professor of Physics.* B.S., U. S. Naval Academy; M.S., Harvard University.

EDRIL LOTT (1963, 1950), *Associate Professor of Secretarial Science.* A.B., Mississippi State College for Women; M.A., Mississippi Southern University.

Carl W. McCartha (1955, 1955), *Associate Professor of Education.* A.B., Newberry College; M.A., University of North Carolina; Ed.D., University of Florida.

Ben Clyde McCary (1930, 1930), *Associate Professor of Modern Languages.* A.B., University of Richmond; Docteur de l'Université de Toulouse.

Donald L. McConkey (1958, 1954), *Assistant Professor of Theatre and Speech.* B.S. in Education, Illinois State University; M.A., Ohio State University.

Cecil M. McCulley (1963, 1948), *Professor of English.* A.B. and M.A., Southern Methodist University; Ph.D., Columbia University.

Bruce T. McCully (1961, 1940), *Professor of History.* A.B., Rutgers University; M.A. and Ph.D., Columbia University.

Virgil V. McKenna (1962, 1962), *Assistant Professor of Psychology.* A.B., College of William and Mary; M.A., Swarthmore College.

John L. McKnight (1958, 1957), *Associate Professor of Physics.* A.B., University of Michigan; M.S. and Ph.D., Yale University.

Donald E. McLennan (1959, 1959), *Professor of Physics.* A.B., University of Western Ontario; M.A. and Ph.D., University of Toronto.

Frank A. MacDonald (1955, 1955), *Professor of Philosophy.* A.B. and M.A., College of William and Mary; M.A., Harvard University.[1]

John T. MacQueen (1962, 1962), *Assistant Professor of Chemistry.* B.S., Davidson College; Ph.D., University of North Carolina.

Robert Maccubbin (1964, 1964), *Instructor in English.* A.B., The Johns Hopkins University; M.A., University of Illinois.

Charlotte P. Mangum (1964, 1964), *Assistant Professor of Biology.* A.B., Vassar College; M.S. and Ph.D., Yale University.

[1]Leave of absence, 1964-1965.



President Paschall (l) receiving from B. Gen. Rothwell H. Brown, USA, Ret. the George Washington Medal of the Freedoms Foundation at Valley Forge for Bringing About a Better Understanding of the American Way of Life

Gateway to the Campus from Richmond Road





Chapel in The Sir Christopher Wren Building

Barry H. Mann (1963, 1963), *Instructor in Modern Languages.* A.B., College of William and Mary; M.A., Middlebury College.

J. Luke Martel (1963, 1963), *Associate Professor of Modern Languages.* A.B., University of Arizona; Licence ès Lettres, Université de Montpellier; Ph.D., Université d'Aix-Marseille.

Mildred Matier (1961, 1961), *Lecturer in Education.* A.B. and M.A., College of William and Mary.

John R. Matthews, Jr. (1963, 1961), *Associate Professor of Economics.* B.S. and M.A., University of Virginia.

James R. Meurer (1964, 1964), *Instructor in Sociology and Anthropology.* A.B., Calvin College; M.A., Bowling Green State University.

Thelma Miller (1957, 1954), *Assistant Professor of Home Economics.* A.B., Berea College; M.S., University of Tennessee.

Herbert C. Mills (1964, 1964), *Assistant Instructor in Geology.* A.B., Vanderbilt University.

John A. Moore (1959, 1950), *Associate Professor of Modern Languages.* B.S., Davidson College; M.A. and Ph.D., University of North Carolina.

George Moskovits (1960, 1960), *Associate Professor of Marine Science.* A.B., New York University; M.S., University of Rhode Island; Ph.D., Agricultural and Mechanical College of Texas.

William Warner Moss, Jr. (1937, 1937), *John Marshall Professor of Government and Citizenship.* A.B., University of Richmond; M.A. and Ph.D., Columbia University.

Roger Neilson (1962, 1962), *Instructor in Physical Education for Men.* B.S., East Stroudsburg State College; M.S., Syracuse University.

Fraser Neiman (1958, 1938), *Professor of English.* A.B., Amherst College; M.A. and Ph.D., Harvard University.

Richard K. Newman, Jr. (1954, 1946), *Associate Professor of Fine Arts.* A.B., Dartmouth College; Ph.D., Yale University.

MAYNARD M. NICHOLS (1961, 1961), *Associate Professor of Marine Science.* B.S., Columbia University; M.S., Florida State University; Ph.D., University of California, Los Angeles.

CHARLES COLLINS NICKERSON (1964, 1964), *Instructor in English.* A.B., Harvard University; B.Litt., Oxford University.

J. J. NORCROSS (1959, 1959), *Assistant Professor of Marine Science.* A.B., William Jewell College; M.S., Michigan State University.

RUSSELL P. NORMAN (1964, 1964), *Assistant Professor of Psychology.* A.B., University of Minnesota; M.A. and Ph.D., University of North Carolina.

GEORGE S. OFELT (1963, 1963), *Assistant Professor of Physics.* B.S., College of William and Mary; Ph.D., The Johns Hopkins University.

DIETRICH O. ORLOW (1963, 1962), *Assistant Professor of History.* A.B., Ohio University; M.A. and Ph.D., University of Michigan.

RICHARD BRUCE OTIS (1960, 1960), *Instructor in Modern Languages.* A.B., University of Washington.

PIERRE C. OUSTINOFF (1958, 1953), *Professor of Modern Languages.* A.B., M.A. and Ph.D., Columbia University.

DEAN P. OWENS (1963, 1963), *Instructor in Marine Science.* A.B., Duke University; M.S., Wagner College; M.S., The Johns Hopkins University.

STEPHEN P. PALEDES (1961, 1954), *Assistant Professor of Music.* Juilliard School of Music; A.B. and M.A., American University.

MARIA ROBREDO PALMAZ (1964, 1964), *Lecturer in Modern Languages.* A.B., National Institute of Modern Languages, Buenos Aires; M.A., University of Cordoba; Diplôme De Culture Française Contemporaine, University of Paris.

GLENN PEARCE (1964, 1964), *Instructor in Philosophy.* A.B., College of William and Mary.

Lawrence Peccatiello (1963, 1961), *Instructor in Physical Education for Men.* B.S. and M.Ed., College of William and Mary.

Robert A. Pedigo (1963, 1960), *Associate Professor of Biology.* B.S., Butler University; M.S. and Ph.D., Emory University.

Dwynal B. Pettengill (1964, 1962), *Associate Professor of Government.* A.B. and M.A., University of Florida; Ph.D., The Johns Hopkins University.

Arthur Warren Phelps (1945, 1945), *Professor of Law.* A.B., Washington and Lee University; M.A., Ohio State University; LL.B., University of Cincinnati; LL.M., Columbia University.

William H. Phillips (1963, 1963), *Lecturer in Fine Arts.* B.Arch., Auburn University.

Melvin A. Pittman (1955, 1955), *Professor of Physics.* B.S., The Citadel; M.S., University of South Carolina; Ph.D., The Johns Hopkins University.

John S. Quinn (1959, 1949, 1956), *Professor of Business Administration.* B.S., State Teachers College, Salem, Massachusetts; M.C.S., Boston University; M.B.A., Harvard Business School; C.P.A.

Charles L. Quittmeyer (1962, 1948, 1962), *Professor of Business Administration.* A.B., College of William and Mary; M.B.A., Harvard University; Ph.D., Columbia University.

Marcel Reboussin (1962, 1946), *Professor of Modern Languages.* Professorat de francais, Ecole Normale Supérieure de St. Cloud; M.A., Columbia University; Agrégé des lettres, Sorbonne, Paris.

William T. Reece (1960, 1960), *Associate Professor of Business Administration.* B.S. and M.B.A., University of North Carolina; C.P.A.

Elizabeth S. Reed (1962, 1955), *Assistant Professor of Philosophy.* A.B., Butler University; M.A., Florida State University; Ph.D., Duke University.

Marion Dale Reeder (1952, 1943), *Associate Professor of Women's Physical Education.* B.S. and M.S., University of Illinois.

Thomas L. Reynolds (1960, 1960), *Professor of Mathematics.* B.S., Guilford College; M.A. and Ph.D., University of North Carolina.

Edwin H. Rhyne (1962, 1954), *Associate Professor of Sociology and Anthropology.* B.S., Clemson College; M.A. and Ph.D., University of North Carolina.

Edward Miles Riley (1963, 1963), *Lecturer in History.* A.B., Washington and Lee University; M.A. and Ph.D., University of Southern California.

F. J. Patrick Riley, Jr. (1962, 1962), *Instructor in Education.* A.B. and M.Ed., College of William and Mary.

Gordon B. Ringgold (1963, 1946), *Professor of Modern Languages.* A.B., Denison University; M.A., Middlebury College; Ph.D., Georgetown University.

Shirley Roby (1964, 1964), *Assistant Professor of Women's Physical Education.* B.S., Longwood College; M.F.A., University of North Carolina, Greensboro.

Donald W. Rogers (1962, 1962), *Assistant Professor of Philosophy.* A.B., Northwestern University; M.A. and Ph.D., Yale University.

James M. Roherty (1963, 1963), *Associate Professor of Government.* A.B. and M.A., University of Washington; Ph.D., University of Wisconsin.

Carl A. Roseberg (1957, 1947), *Associate Professor of Fine Arts.* B.F.A. and M.F.A., State University of Iowa; Life Fellow, International Institute of Arts and Letters.

Fran Mae Rucker (1962, 1962), *Instructor in Physical Education for Women.* B.S. and M.Ed., Kent State University.

George J. Ryan (1945, 1935), *Professor of Ancient Languages.* A.B. and M.A., St. Louis University; Ph.D., University of Michigan.

H. Grant Sampson (1964, 1964), *Visiting Associate Professor of English.* A.Mus., McGill University; A.B. and M.A., Bishop's University; Ph.D., Michigan State University.

Anthony L. Sancetta (1961, 1948), *Professor of Economics.* A.B., Western Reserve University; M.S. and Ph.D., Columbia University.

William C. Sanders, Captain, Arm. (1962, 1962), *Assistant Professor of Military Science.* A.B., North Georgia College.

James W. Sawyer (1964, 1960), *Assistant Professor of Theatre and Speech.* A.B., Bates College; M.S., Syracuse University.

Howard M. Scammon (1958, 1948), *Associate Professor of Theatre and Speech.* A.B., College of William and Mary; M.A., Northwestern University.

John E. Selby (1963, 1963), *Lecturer in History.* A.B., Harvard College; M.A. and Ph.D., Brown University.

James A. Servies (1957, 1953), *Librarian.* Ph.B. and M.A., University of Chicago.

Richard B. Sherman (1960, 1960), *Assistant Professor of History.* A.B., Harvard College; M.A., University of Pennsylvania; Ph.D., Harvard University.

Robert T. Siegel (1963, 1963), *Research Professor of Physics.* B.S., M.S. and D.Sc., Carnegie Institute of Technology.

Howard M. Smith, Jr. (1953, 1946), *Associate Professor of Men's Physical Education.* B.S., College of William and Mary; M.S., Syracuse University.

James Morton Smith (1956, 1955), *Lecturer in History.* B.Ed., Southern Illinois University; M.A., University of Oklahoma; Ph.D., Cornell University.

LeRoy W. Smith (1962, 1956), *Associate Professor of English.* A.B., American University; M.A., George Washington University; Ph.D., Duke University.

Robert E. Smith (1946, 1946), *Associate Professor of Physics.* A.B., Allegheny College; M.A., University of North Carolina.

Russell P. Sparling (1964, 1964), *Instructor in English.* A.B., Arlington State College; M.A., Duke University.

Bernice M. Speese (1952, 1946), *Assistant Professor of Biology.* B.S. and M.A., College of William and Mary; Ph.D., University of Virginia.

Joanne Squires (1964, 1964), *Acting Assistant Professor of Psychology.* B.S., Ohio University; M.S. and Ph.D., University of Pittsburgh.

Frank J. Staroba (1961, 1961), *Assistant Professor of Theatre and Speech.* A.B., DePauw University; M.A., Northwestern University; D.F.A., Yale University.

E. Blythe Stason, Jr. (1963, 1963), *Assistant Professor of Law.* A.B., M.A. and LL.B., University of Michigan; LL.M., Harvard University.

Alan C. Stewart (1952, 1944), *Associate Professor of Music.* A.B., Union College; M.A., Columbia University.

Howard Stone (1963, 1948), *Professor of Modern Languages.* A.B., Pomona College; M.A., Claremont College; Ph.D., University of California, Berkley.

Joyce Stone (1964, 1964), *Lecturer in Mathematics.* A.B., Old Dominion College.

Marie Erika Strohhofer-LeMarry (1964, 1964), *Instructor in Modern Languages.* A.B., University of Saskatchawan; M.A., Yale University.

W. Dabney Stuart III (1961, 1961), *Instructor in English.* A.B., Davidson College; M.A., Harvard University.

William F. Swindler (1958, 1958), *Professor of Legal History.* A.B. and B.S., Washington University (St. Louis); M.A. and Ph.D., University of Missouri; LL.B., University of Nebraska.

John W. Sykes (1963, 1963), *Assistant Professor of Education.* B.S., New York State College; M.Ed., University of Virginia.

August Tammariello (1963, 1962), *Instructor in Physical Education for Men.* A.B., University of Denver; M.Ed., Pennsylvania State University.

LAVONNE O. TARLETON (1962, 1959), *Instructor in Chemistry.* B.Ch.E., Cornell University.

THADDEUS W. TATE, JR. (1964, 1961), *Associate Professor of History.* A.B. and M.A., University of North Carolina; Ph.D., Brown University.

CHARLES L. TAYLOR (1964, 1962), *Assistant Professor of Government.* A.B., Carson Newman College; M.A. and Ph.D., Yale University.

ROBERT J. TAYLOR, *Visiting Lecturer in History.* A.B., University of Michigan; M.A., Pennsylvania State University; Ph.D., Brown University.

RICHARD C. TERMAN (1963, 1963), *Assistant Professor of Biology.* A.B., Albion College; M.S. and Ph.D., Michigan State University.

EVELYN THOMAS (1964, 1964), *Acting Instructor in History.* A.B., Rice University; M.A., College of William and Mary.

THOMAS E. THORNE (1945, 1940), *Associate Professor of Fine Arts.* B.F.A., Yale University.

HOWARD PAUL TRAVIS (1964, 1964), *Instructor in Theater and Speech.* A.B. and M.A., University of Michigan.

FREDERICK D. TRUESDELL (1963, 1960), *Professor of Music.* B.M. and M.M., in Composition, and M.M., in Piano, University of Michigan; A.M.D., University of Rochester.

WILLIAM C. TURNER (1960, 1960), *Assistant Professor of Mathematics.* B.S., Furman University; M.A., Duke University.

ANNE S. TYLER (1962, 1962), *Instructor in Modern Languages.* A.B., Randolph-Macon Woman's College; M.A., Columbia University.

WILLARD A. VAN ENGEL (1961, 1946), *Professor of Marine Science.* Ph.B. and Ph.M., University of Wisconsin.

CHARLES R. VARNER (1958, 1953), *Associate Professor of Music.* B.M.E. and M.M., Northwestern University.

JUNIUS ERNEST WARRINER III (1963, 1963), *Instructor in Marine Science.* B.S. and M.A., College of William and Mary.

MARVIN L. WASS (1960, 1960), *Associate Professor of Marine Science.* B.S., Winona State College; M.S., Florida State University; Ph.D., University of Florida.

HAZEL H. WEIDMAN (1964, 1964), *Assistant Professor of Sociology and Anthropology.* B.S., Northwestern University; M.A. and Ph.D., Radcliffe College.

FRED WILSON WEILER (1962, 1960), *Associate Professor of Mathematics.* B.S., Muhlenberg College; M.A., University of Pennsylvania; Ph.D., Ohio State University.

BRUCE L. WELCH (1962, 1962), *Assistant Professor of Biology.* A.B., Auburn University; Ph.D., Duke University.

ROBERT E. WELSH (1963, 1963), *Research Associate Professor of Physics.* B.S., Georgetown University; Ph.D., Pennsylvania State University.

JAMES P. WHYTE, JR. (1958, 1958), *Professor of Law.* A.B., Bucknell University; M.A., Syracuse University; LL.B., University of Colorado.

ALMA L. WILKIN (1957, 1928), *Associate Professor of Home Economics.* B.S., Kansas State University; M.A., Teachers College, Columbia University.

RUTH E. WILLIAMS (1963, 1963), *Lecturer in Education.* A.B., Mary Washington College.

STANLEY B. WILLIAMS (1948, 1948), *Professor of Psychology.* A.B. and M.A., University of California, Los Angeles; Ph.D., Yale University.[1]

JOHN H. WILLIS, JR. (1962, 1959), *Assistant Professor of English.* A.B., University of Virginia; M.A., Columbia University.

MARGARET WINDER (1964, 1964), *Lecturer in Education.* B.S., M.S. and Ph.D., Carnegie Institute of Technology.

[1]On leave of absence, 1964-1965.

Rolf G. Winter (1964, 1964), *Professor of Physics.* B.S., M.S. and D.Sc., Carnegie Institute of Technology.

Nathaniel Withers (1964, 1964), *Instructor in Mathematics.* B.S. and M.A., College of William and Mary.

Charles X. Witten (1963, 1963), *Instructor in Physical Education for Men.* B.S. and M.A., University of Maryland.

Milton R. Wofford, Captain, Inf. (1963, 1963), *Assistant Professor of Military Science.* B.S., United States Military Academy.

Gordon S. Wood (1964, 1964), *Instructor in History.* A.B., Tufts University; M.A. and Ph.D., Harvard University.

J. L. Wood (1963, 1959), *Professor of Marine Science.* B.S., Massachusetts State College; M.S., University of Massachusetts; Ph.D., Columbia University.

Langley H. Wood (1961, 1961), *Assistant Professor of Marine Science.* B.S., Richmond Professional Institute; M.A., Columbia University.

Dudley Warner Woodbridge (1932, 1927), *Chancellor Professor of Law.* A.B. and J.D., University of Illinois.

Robert A. Woodmansee (1964, 1964), *Associate Professor of Marine Science.* B.S. and M.S., University of Miami; Ph.D., Western Reserve University.

Joseph T. Zung (1964, 1961), *Associate Professor of Chemistry.* B.S., University of Grenoble; M.A., Urban University, Rome; Ph.D., University of Cincinnati.

Library Staff

James Albert Servies (1957, 1953), *Librarian.* Ph.B. and M.A., University of Chicago.

James Henry Renz (1964, 1964), *Assistant Librarian.* A.B., Ohio State University; M.A.L.S., University of Michigan.

Herbert Lawrence Ganter (1950, 1940, 1948), *Archivist.* A.B. and B.C.L., College of William and Mary.

Rachel Durham Aldrich (1958, 1958), *Cataloguing Librarian.* B.Ed., Plymouth Teachers College; B.S. in Library Science, Simmons College.

Anna Boothe Johnson (1960, 1959), *Law Librarian.* B.S., Longwood College.

Gerald Eugene Renner (1963, 1963), *Reference and Circulation Librarian.* B.S. (Education) and B.S. (Journalism), University of Kansas; M.A. in L.S., Louisiana State University.

Sydney A. Temple, Jr. (1964, 1963), *Curator of Manuscripts.* A.B., University of California; B.D., School of the Pacific; Ph.D., Columbia University.

Ailene Anne Zirkle (1963, 1963), *Acquisitions Librarian.* A.B., Madison College; M.A. in L.S., Peabody College.

Sallie Virginia Gray (1964, 1964), *Periodicals Librarian.* A.B., Duke University; M.S., University of North Carolina.

Health Service Staff

Robert E. DeBord, M.D.	*College Physician*
Sue M. Hartsfield, R.N.	*Head Nurse*
Mrs. Charles Chandler, R.N.	*Nurse*
Mrs. Bettye Bracey, R.N.	*Nurse*
Mrs. Irma Fey, R.N.	*Nurse*
Mrs. Gordon Gray, R.N.	*Nurse*

Committees of the Faculty

Academic Status: Lambert (Chairman), Barnes, Cato, Davidson, Donaldson, Derks, Johnston.

Admissions: Harcum (Chairman), Galfo, Kernodle, J. D. Lawrence, Orlow, Roherty, L. Smith, Thorne, Hunt (Ex-officio).

Athletics (Men): Holland (Chairman), Barnes, Hooker (ex-officio), Johnston, Pedigo, Roseberg, H. Smith.

Athletics (Women): Reeder (Chairman), Barksdale, Barrett, Rucker.

**Curriculum:* Sherman (Chairman), Copeland, Hamilton, Kallos, Lachs, Moore, Pedigo, Quittmeyer, Reynolds.

†*Degrees:* Fowler (Chairman), Bick, Harcum, Ward Jones, Rhyne.

Discipline: Lambert (Chairman), Barnes, Curtis, Donaldson, Kutner, Quinn.

†*Faculty Affairs:* Fowler (Chairman), Abbot, Byrd, Evans, Kernodle, McKnight, Moss.

Faculty Research: Evans (Chairman), Altshuler, Black, Foster, Ward Jones, B. McCully, Newman.

Selection of Students for Foreign Study: Guy (Chairman), W. M. Jones, Kallos, Lambert, C. McCulley.

Foreign Students and Opportunity for Foreign Study: Otis (Chairman), Lachs, B. McCully, Moore, Neiman.

Graduate Council: Siegel (Chairman), Abbot, Atkeson, Byrd, Derks, Galfo, Hargis, Hill, S. Lawrence, Moss, Winter.

Honors: Moss (Chairman), Abdul-Magid, Fowler, Guy, Johnston, W. M. Jones, Lachs, Kernodle, L. Smith.

*Elected by the Faculty.
†Elected by Faculty, except for Chairman, who is appointed by the President.
Note: The President of the College is ex-officio member of all committees.

**Honorary Degrees:* GUY, NEIMAN, TRUESDELL.

Arts and Lectures: PALEDES, TATE (Co-Chairmen), HAAK, TAYLOR, THORNE, B. WELCH, GREEN (ex-officio).

**Nominating:* MCLENNAN (Chairman), BLACK, FOSTER, GRAY, MOSS, L. SMITH.

Prizes and Special Awards: NEIMAN (General Chairman), *Botetourt Medal:* DONALDSON, KALLOS, LAMBERT, MOORE; *Carr Cup:* BARNES, JENKINS (Also two additional members, one each to be named by the Senior and Junior Classes); *Sullivan Awards:* LAMBERT, C. MCCULLEY, PETTENGILL, H. SCAMMON, SNIDOW, SQUARTRIGLIA, WILLIS.

Psychological Counseling Center Advisory Council: JOHNSTON (Chairman), CLEM, DEBORD, HARCUM, LAMBERT, L. SMITH, TARLETON.

Representatives to the General Cooperative Committee: BARNES, DONALDSON, FEHR, LAMBERT, MCKENNA, RHYNE, H. SMITH, SNIDOW.

Library: L. JOHNSON (Chairman), DAVIDSON, EDWARDS, FUNSTEN, KESSLER, MOORE, SERVIES, THORNE.

Scholarships and Student Employment: KORPI (Chairman), BRIGHT, COREY, HUNT, PETTENGILL, QUINN.

Special Events: (Chairman to be specially appointed for each event), *Convocation Marshals:* GUY (Chief Marshal), ABBOT, BALDWIN, DERKS, EVANS, HOFFMAN, KALLOS, KERNODLE.

Student Activities Fee: LAMBERT (Chairman), C. MCCULLEY, REECE, WHYTE.

Students' Recreation: H. SMITH (Chairman), BARNES, BARRETT, DONALDSON, GREEN, REEDER, SNIDOW, VARNER.

Student Religious Activities: BRIGHT (Chairman), CATO, FEHR, GROSS, JENSEN, MCKNIGHT, TARLETON, WILKIN, ZUNG.

*Elected by the Faculty.

COLLEGE CAMPUS AND BUILDINGS

THE COLLEGE CAMPUS, comprising approximately 1,200 acres of land, extends from the western edge of the restored area of Colonial Williamsburg to picturesque Lake Matoaka and an extensive stretch of beautifully wooded land known as the College Woods. Within its boundaries are three sections known as the *Old Campus, The Main Campus,* and *The Developing Campus.*

In the front of a triangle formed by Jamestown and Richmond Roads, and facing the Duke of Gloucester Street, lies the elm-shaded *Old Campus* with its three original buildings. *The Sir Christopher Wren Building* (1695 restored 1928-31) has persisted despite damage by fires in 1705, 1859 and 1862. Its Great Hall contains portraits of Queen Anne (Kneller school) and thirteen members of the Bolling and affiliated families (1650-1850). The Chapel crypt contains, among others, the graves of Lord Botetourt, three Randolphs and Bishop James Madison. Still in daily classroom use, it is the oldest academic building in the United States and designated a National Historic Landmark by the Department of the Interior. *The Brafferton* (1723 restored 1932) was erected and maintained as an Indian School until the Revolution by income derived from Brafferton Manor, Yorkshire, England, purchased by the executors of Robert Boyle, the noted English physicist, to carry out his bequest to promote Christianizing the Indians. Today it serves as a College guest house and as headquarters for the Society of the Alumni. *The President's House* (1732 restored 1931) has served as home for each of the twenty-three presidents of the College. Damaged by fire in 1781, while occupied as a hospital by French Army officers after Yorktown, King Louis XVI later contributed to its repair. These three pre-Revolutionary masterpieces were restored through the generosity of John D. Rockefeller, Jr.

Behind the Wren Building, extending to the College Woods and flanking the Old Campus is the *Main Campus.* Through its center runs a wide sunken garden, lined on two sides by a boxwood hedge. On the north side of the sunken garden is the *Old Library* (1908, 1923, 1929), originally constructed with Carnegie Foundation aid. Upon completion of the Earl Gregg

Swem Library, the Old Library will house the Marshall-Wythe School of Law, its library and related academic and public affairs activities. West of the Old Library is *Rogers Hall* (1927), named for William Barton Rogers, student (1819-21), professor of natural philosophy and chemistry (1828-35), and founder and first president of Massachusetts Institute of Technology (1861-70). It contains classrooms and laboratories for chemistry and other studies. West of Rogers Hall is *Marshall-Wythe Hall* (1935) named for John Marshall, student (1870) and later Chief Justice of the United States, and for George Wythe, alumnus (c. 1746) and first professor of the oldest chair of law in the United States (1828-35). It is used for both administrative offices and classrooms.

On the east end, south side, of the sunken garden is *Ewell Hall* (1926 rebuilt 1958). Originally built by Phi Beta Kappa, it burned in 1953, and when rebuilt was named in honor of Benjamin Stoddert Ewell, fifteenth President of the College. It now houses the offices of the College President and Dean of Admissions as well as providing space for classrooms. West of Ewell Hall is *Washington Hall* (1928), named for the first President of the United States who also served as Chancellor of the College (1788-99), which is devoted to general classroom use. Farther west of the sunken garden, on the edge of the College Woods, are eleven lodges which are rented to the several social fraternities.

On the northern edge of the Main Campus, north of Richmond Road, is *Brown Hall* (1926), a dormitory housing 105 men. It is named for the home of Dudley Digges, Revolutionary patriot whose home stood on its site. Close by are nine college-owned residences occupied by sororities. In a westerly direction, south of Richmond Road, is *Blow Gymnasium* (1924 enlarged 1941), given by Mrs. George Preston Blow and family in memory of George Preston Blow, Captain, USN, whose father, George Blow II, and grandfather, Col. William Blow, attended the College in 1804 and 1829-31, respectively. It is used for men's physical education and R.O.T.C. To the southeast of Blow Gymnasium is *Monroe Hall* (1924), a men's dormitory housing 160, named for the fifth President of the United States and student at William and Mary (1774-76). Southwest of Blow Gymnasium is *Old Dominion Hall* (1927), a men's residence housing 190,

named in honor of Virginians who played a prominent part in the making of the Country. *Bryan Hall* (1953), north of Old Dominion, is the present home of the Marshall-Wythe School of Law, and was named for John Stewart Bryan, twentieth President of William and Mary (1934-42) and Chancellor of the College (1942-44). Adjacent to Bryan, and forming a complex of dormitories are *Dawson* (1953), named for the second and fourth College presidents, William (1743-52) and Thomas (1755-60); *Stith* (1953), named for the third President of the College, William Stith (1752-55); *Camm* (1949), named for the seventh College President, John Camm (1771-77); and *Madison* (1959), named for the eighth College President, James Madison (1777-1812). The total capacity of this dormitory complex is 296 men. West of Bryan complex is *Cary Field Park* (1935), consisting of a 15,000 seat stadium surrounded by men's athletic fields and parking areas. It was named for T. Archibald Cary, member of the College's Board of Visitors (1901-06), who gave funds for the first athletic field (1910) where Old Dominion and Bryan Halls now stand.

On the southern side of the Main Campus, south of Jamestown Road, is *Tyler Hall* (1916 renovated 1951), a men's residence housing 76, named for John Tyler, alumnus of the College (1806), and tenth President of the United States (1841-45). South of Tyler Hall is the *King Infirmary* (1930), named for Dr. David J. King, College physician (1919-34). The *Campus Center* (1960) is directly west of Tyler Hall and is the meeting place on Campus. It provides offices for student activities and publications and contains recreation rooms, a theater, and meeting and dining rooms in addition to "The Wigwam" which features a grill for light dining. West of the Campus Center is *Trinkle Hall* (1926), the main dining hall named in honor of E. Lee Trinkle, Governor of Virginia (1922-26), who was instrumental in restoring this building promptly after a fire had destroyed an earlier dining hall on the same site. South of Trinkle Hall are located the *College Laundry* and *Power Plant,* and west of Trinkle Hall is *The Fine Arts Building* (1893 renovated 1936) which provides classroom and studio space for painting and sculpturing. Directly west of The Fine Arts Building is *Taliaferro Hall* (1935), named for William Booth Taliaferro, alumnus of the College (1842), who was active in the reopening of the College in 1888

and a member of its Board of Visitors (1870-98). This is a men's dormitory accommodating 66 which also houses the College Book Store.

Farther west, on the north side of Jamestown Road, are four residence halls for women. *Jefferson Hall* (1920), named for Thomas Jefferson, student at the College (1760-62), reorganizer of the College curriculum (1779), member of the Board of Visitors (1779), and third President of the United States (1801-09), houses 115. West of Jefferson, and housing 164, is *Barrett Hall* (1927), named for Kate Waller Barrett, M.D., prominent Virginia civic leader, advocate of higher education for women and member of the Board of Visitors (1921-25). *Chandler Hall* (1931), housing 138, is west of Barrett and is named for Julian Alvin Carroll Chandler, alumnus (1891), and President of the College (1919-34). The largest women's dormitory, *Landrum Hall* (1958), is still farther west. It is named for Grace Warren Landrum, Dean of Women and Professor of English (1927-47), and houses 217.

On the extreme southwest edge of The Main Campus is *The Developing Campus.* Here, facing Jamestown Road, is *Phi Beta Kappa Memorial Hall* (1957) which contains an 805-seat theater, dressing rooms, scene building shops, classrooms, offices, a conference center and television and radio broadcasting facilities. Adjacent to Phi Beta Kappa are women's playing fields and tennis courts. North of Phi Beta Kappa is the *Earl Gregg Swem Library* (expected completion 1965), named for the College Librarian (1920-45). Here will be housed 500,000 catalogued items, the Lord Botetourt Art Gallery, the William and Mary Museum, the Institute of Early American History and Culture and an auditorium and seminar rooms. Northwest of Phi Beta Kappa is the *William Small Physical Laboratory* (1964) named for William Small, professor of Natural Philosophy (1758-64). Here are to be found modern and elaborate classrooms, laboratories and equipment for teaching and research in physics. Farther to the northwest is *Adair Gymnasium* for women (1963), named for Cornelia Storrs Adair, student (1921-23), and distinguished Virginia educational leader. Beyond Adair Gymnasium in the same direction is *Jessie Ball duPont Hall* (1964) bearing the name of a gracious benefactor of the College and accomodating 270 women. Directly north of the Swem Library is *Yates Hall* (1962), a men's residence hall, housing 105, named for the Rev. William

Yates, fifth President of the College (1761-64). Far to the west of Phi Beta Kappa and on the shores of Lake Matoaka is the *Lake Matoaka Drama Amphitheatre* (1947), scene for annual outdoor summer historical dramas.

The Library

The main library as of July 1, 1964, contained 319,283 cataloged volumes.[1] The books are classified according to the Dewey Decimal System with variation in special classes. Additional resources of the library include 158,000 government documents; 56,700 books and pamphlets in special collections; and about 40,000 volumes in micro-media form. The number of different periodicals and newspapers regularly received is 1,620.

With the exception of rare books and materials in special collections, the volumes in the library are on open shelves and easily accessible to all students and members of the faculty. Students are privileged to go freely into the stack rooms to select the books they need or to browse at leisure.

The library is open Monday through Friday: 8 a.m. to 11 p.m.; Saturday: 8 a.m. to 5 p.m.; Sunday: 2 to 5 p.m., 7 to 11 p.m. A student may borrow as many books at one time as he wishes. The privilege of borrowing books is granted to adult residents of Williamsburg and the adjoining counties, to military personnel stationed on the Peninsula, to members of the staff of Colonial National Historical Park at Jamestown and Yorktown, and to the staff of Colonial Williamsburg, Inc. When out-of-print material cannot be supplied from the library collection, inter-library loans are requested for graduate students and faculty members. Photocopy facilities are available at a modest cost to all users of the library.

The library of the Marshall-Wythe School of Law, in Bryan Hall, numbers 34,500 volumes, and during the regular session is open Monday through Saturday: 8 a.m. to 11 p.m.; Sunday: 12 noon to 11 p.m.

The reserve book collection, on the second floor of the library, is open during regular library hours; it contains about 4,000

[1]The library holdings of the College also include more than 580,000 manuscripts, prints, maps, musical records, and newspapers dated before 1900. The total library holdings number more than 1,128,000 pieces.

volumes, which are changed each semester as the courses require. There are three departmental collections in special rooms which are open at special hours: the Chemistry Library in Rogers Hall, the Physics Library in the William Small Physical Laboratory, and the Geology Library in Camm Hall.

Association books owned and used by distinguished Virginians now number more than 4,000 volumes. In this group, the volumes belonging to each of certain families have been kept together to exemplify the culture of the early planter families. The following family groups are noteworthy: Landon Carter, Francis Jerdone, St. George Tucker, William and Peyton Short, and John Tayloe. More than 2,000 books owned and used by William and Mary students before 1888 have been assembled; these illustrate the curricula of two centuries.

The collection of William and Mary Archives and historic manuscripts touches Virginia life of three centuries. Worthy of special mention are representative letters of such distinguished Virginians as George Washington, John Marshall, Thomas Jefferson, James Monroe, John Tyler, James Madison, George Mason, William B. Taliaferro, and Joseph E. Johnston. As part of the collection, there are 2,000 ledgers, journals, letter books, diaries, account books and notebooks. Of prime importance is the collection of letters, documents, and accounts of officials, professors, and students of the College of William and Mary, to which notable additions are being made periodically.

The library is fortunate in receiving each year many gifts of books from friends, alumni, members of the faculty and students. These are always welcomed. Friends of the library have supported the publication of a number of historical and bibliographical works which are distributed to scholars and institutions throughout the academic world.

STUDENT LIFE

THE NATURAL FRIENDLINESS which exists at William and Mary is the distinctive characteristic of the daily life of the campus. The College seeks to foster intellectual interests, cultural appreciation, and a democratic spirit among its students. As the College is chiefly a resident college, students and faculty comprise a closely knit community in which extracurricular and social activities play a considerable role in the cultural and intellectual development of the individual. The informal relationship between teacher and student serves to encourage the process of living and learning together. The College believes that one of its major purposes would be to inculcate by means of the several phases of college life the ideals of self-responsibility and good campus citizenship.

The new student at William and Mary is introduced to this life and atmosphere during the orientation period which takes place immediately before the beginning of classes in September. During this period, the honor system, one of William and Mary's contributions to American education, is explained: placement tests are given; and historic Williamsburg, the restored Colonial city, is explored through the cooperative hospitality of Colonial Williamsburg. Thus the new student becomes an integral part of a great institution of learning, making new friends among members of his own and other classes, the faculty, and administrative officers.

Naturally and imperceptibly the student becomes a part of the democratic life of William and Mary, which encourages the exchange of friendly greetings with other students, members of the faculty, and visitors to the College. This spirit permeates the classroom as well, for the new student finds his instructors and the administrative staff ready and willing to assist him through their experience and human understanding.

Community life is important at William and Mary, since the majority of students live in eighteen residence halls, seven of which are for women and eleven for men. The eleven fraternities maintain essentially nonresidential lodges and the nine sororities provide housing for part of their membership. While these organizations make prominent contributions to the life of the College, an

adequate social life is available to non-members in many functions and activities sponsored at the College. At William and Mary, residence life is particularly attractive. The use of leisure is provided for in the Residence Halls by recreation rooms, study rooms, and lounges, which contain easy chairs, books, magazines, newspapers, radios, pianos, card tables, and games. As the meeting place of students on the campus, the Campus Center offers an educational and recreational program of events for the College family as well as opportunities for student participation in the presentation of the program. The facilities of the Center include lounges for informal gatherings, a television room, music listening rooms with high fidelity equipment, a reading room, and a cafeteria and refreshment bar, called "The Wigwam." Billiards, bowling, table-tennis, and shuffleboard comprise the games activity. In addition, there are meeting rooms to house various interest groups and clubs as well as a ballroom for dancing. The officers of the various student publications and Student Government are located in the Center. A film revival series, a lecture series, art and craft exhibits, and concerts are presented as a part of the regular Center programming. With an enrollment of most of the states of the Union, the College offers its students an opportunity to widen their horizons further through the exchange of views and customs.

Informal College dances take place occasionally on Saturday nights throughout the session, and formal dances are held at intervals. In addition, dances and other social functions are held by fraternities, sororities, dormitories and other organizations.

Student Government

The constitution of the Student Association of the College of William and Mary provides for an Executive Cabinet and Assembly whose powers extend to all student activities common to both men and women. A separate organization, the Women's Dormitory Association, deals with the dormitory activities and regulations which concern the women solely. Similarly, each men's residence hall elects a Dormitory Council from among its students.

A General Cooperative Committee, consisting of students, members of the faculty, and administrative officers, serves as a clearing house for matters of general concern to the entire College.

Phi Beta Kappa Society

Alpha of Virginia: The Phi Beta Kappa Society, the oldest Greek-letter fraternity in the United States, was founded by a small group of students at the College of William and Mary on December 5, 1776. During the succeeding four years, the number of members increased to a total of fifty, including Captain John Marshall, who subsequently became Chief Justice of the United States, and Elisha Parmele, a graduate of Harvard University. The faith of these youthful scholars in the permanence and future greatness of their society was shown by their preparation of charters for branches in other colleges. Two such charters were entrusted to Elisha Parmele, who brought about the establishment of chapters at Yale in 1780 and at Harvard in 1781.

The original society at the College became inactive in 1781, with the closing of the College because of the approach of the army of Cornwallis. It was revived in 1851 with the blessings of an aged founder, William Short, and continued until early in the War Between the States. In 1893 the Alpha of Virginia Chapter was revived once again, and it has continued since that time as an active and significant element in the educational program of the College.

At present there are approximately 160 chapters of Phi Beta Kappa located at the leading educational institutions of the United States, with a membership in excess of 120,000. Members of the local chapter number more than 1,000 persons; in addition, a number of faculty members who were elected to Phi Beta Kappa at other institutions serve actively as affiliated members of Alpha of Virginia. Senior students up to 10 per cent of the total number in the class are elected each year, largely on the basis of scholarship, as members in course. From the alumni of the College of at least ten years' standing who have attained distinction in their professions, Alumni members are elected from time to time. Less frequently, honorary members and faculty members who are not graduates of the College are elected to membership.

Honor Societies and Special Interest Groups

Omicron Delta Kappa is an honorary society whose membership is elected annually from the junior and senior men on the basis of eminence in the fields of scholarship; athletics; social and

religious activities; publications; forensic, dramatic, musical, and other cultural activities.

Mortar Board is a woman's honorary society whose members are elected in their junior year on the three-fold basis of service, scholarship, and leadership. It endeavors to serve the College each year by fostering scholarship, by rendering its services whenever requested, and by encouraging a wholesome college atmosphere.

There are eight honorary societies devoted to furthering interest in special fields of learning. Members of these groups are elected on the basis of scholastic proficiency in the departments concerned. In addition, many students find opportunities for friendly and stimulating associations in the various special interest groups and departmental clubs devoted to such fields of endeavor as literature, philosophy, drama, debating and the several fields of science. Among the enterprises sponsored by these groups are the annual "Open House" demonstrations of the Departments of Biology, Chemistry, Physics and Psychology.

Fraternities

Since the first Greek letter fraternity was founded at William and Mary in 1776, the College has had an unparalleled heritage as a background for its fraternity life. The passage of time, with its accompanying changes in customs, and the opening of the College to women students, has changed and expanded the fraternity sphere of influence. Today the fraternity provides not only a source of good fellowship, but also fills many other needs in the college community.

The fraternities at William and Mary have implied standards of social deportment which are instilled into each fraternity man, and which help to prepare him for his post-college relations with others in his community. Fraternity intramural athletics allow a much wider participation in competitive sports than can be permitted by varsity competition. A definite criterion of scholarship is established which all men must meet before they are allowed to join any fraternity. Each semester the President of the College awards a cup to the fraternity which has achieved the highest scholastic standing for the preceding semester.

Self-government within the fraternity system is encouraged through the efforts of an Interfraternity Council. There are chap-

ters of eleven social fraternities on the campus: Theta Delta Chi, Sigma Alpha Epsilon, Pi Kappa Alpha, Kappa Alpha, Kappa Sigma, Phi Kappa Tau, Lambda Chi Alpha, Pi Lambda Phi, Sigma Pi, Sigma Nu and Sigma Phi Epsilon. An Alumni Interfraternity Council, composed of graduate representatives of the several fraternities, acts in an advisory capacity. This organization makes an annual award to the outstanding fraternity based upon the criteria of scholarship, leadership, varsity athletics, intramurals and community relations.

Sororities

There are nine chapters of national sororities at the College. In 1921 Chi Omega was founded followed by Kappa Alpha Theta, Kappa Kappa Gamma, Pi Beta Phi, Alpha Chi Omega, Phi Mu, Kappa Delta, Delta Delta Delta, and Gamma Phi Beta. The affairs of the sororities are administered and regulated by a chapter of The National Pan Hellenic Council.

Each sorority carries out its respective national principles in the general realms of social congeniality, moral and mental standards, development of leadership, cooperation and service, and in stimulating interest in vocations as an outlet for creative abilities. Each sorority has local as well as national philanthropies to which it contributes. Each semester the President of the College awards a cup to the sorority which has achieved the highest scholastic standing for the preceding semester.

The sorority houses, owned by the College, each accommodate between 15 and 20 women, usually juniors and seniors, under the College status of a "small residence hall."

Publications

The *Flat Hat* is a weekly paper published and edited by the students. It is a chronicle of student life and daily affairs of the College.

The *William and Mary Review,* published at least twice a year by a body of student editors, is the College literary publication. It contains short stories, essays, poems, and reviews. Contributions are welcome from all members of the student body.

The *Colonial Echo* is published annually by a staff comprised entirely of students. This well-illustrated volume is a treasury of current campus life.

The financial administration of all student publications is supervised by the Student Activities Fee Committee which is composed of faculty and student members. The selection of the major editorial and managerial positions of the publications is under the jurisdiction of the Publications Committee.

The William and Mary Theatre

Now in its thirty-ninth year, the William and Mary Theatre is a significant contribution to students as members of the audience or as the participants. The staff is composed of four professionally trained members of the faculty of Theatre and Speech. Participation in all forms of dramatic work is provided to students through courses in the Department of Theatre and Speech and through extra-curricular activity. Tryouts for parts in plays are open to all students, and casting is based on a competitive process with the intent to assemble the best qualified people for public performances. The production crews are basically composed of members of the classes in stagecraft, lighting, and design and costume, but emphasis is also placed on the opportunity for all students to volunteer to serve on committees of buildings, painting, sewing, making of properties, publicity, ushering, and box office management. Every production is a learning process for every one participating.

Annually four full-length plays are presented in public performances. The plays are carefully chosen to provide a variety of entertainment, dramatic experience, and cultural value. Among the plays recently produced are: *The Crucible, The Taming of the Shrew, The Visit, Under Milk Wood, Three Penny Opera, Shoemaker's Holiday, Our Town, Lola, Death of a Salesman, Richard III, The Time of Your Life, Le Bourgeois Gentilhomme, Long Day's Journey into Night* and *The Duchess of Malfi.*

Production methods and styles vary from the proscenium and picture-frame stage to open staging and theatre-in-the-round.

A chapter of a national honorary fraternity is made up of members elected from students who become eligible through successful work in the College theatre.

The William and Mary Debaters

The Intercollegiate Debate Council is an organization fostering all phases of debate and forensic activity. Any student interested

in debate, discussion, extempore speaking, oratory, or other forensic activity may join the group.

Under the guidance of the faculty Director of Forensics and the Theater and Speech Department, an extensive program of training and speaking is carried on. Each year debaters from the College participate in about fifteen intercollegiate debate tournaments. Debaters in recent years have traveled to tournaments at the University of Notre Dame, Florida State University, Dartmouth College, New York University, University of Kentucky, University of South Carolina, Georgetown University, University of West Virginia, University of Miami, Northwestern University and several other colleges. The College of William and Mary is affiliated with Tau Kappa Alpha, national honorary forensic fraternity. Outstanding college debaters may qualify for membership in this group.

The group also sponsors, from time to time, discussion forum meetings, which give to all members of the student body the opportunity to express views on local and national issues. Debaters carry on an extensive program of appearances before local religious groups, civic organizations, and on radio and television outlets in the Richmond and Norfolk areas. Foreign debate teams from Oxford University, Cambridge University, and other English universities are brought to the campus for public debates. William and Mary students have been invited on several occasions to participate in demonstration programs before bodies of the Speech Association of America meeting in convention.

The Marshall-Wythe Debate Tournament is sponsored by the College each February. This event brings to the campus teams from more than twenty colleges and universities from all parts of the United States. The tournament has become known as one of the top meets in the nation, offering both a unique setting and top quality competition.

The program is coordinated with the curricular offerings of the Theater and Speech Department in order to make most effective use of the available means of teaching techniques of effective oral communication which will be of use to students in each of the several areas of concentration.

Lectures, Concerts, and Exhibitions

The cultural life at William and Mary is rich and varied. Under the auspices of the Committee on Arts and Lectures, the

College seeks to provide its students opportunities for enjoying a wide range of public lectures, concerts and films.

As a charter member of The University Center in Virginia, Inc., the College participates in a cooperative Visiting Scholars Program which annually brings to the campus for public lectures, readings and seminars, a great many distinguished scholars in all fields of learning, renowned authors and artists, and leading figures in public life. Additional public lectures are sponsored by the Committee in cooperation with the Student Committee on Arts and Lectures, and by the various departments of the College.

The William and Mary Concert Series annually offers to students, faculty and area residents, on a voluntary subscription basis, four to six performances by outstanding artists of the professional concert stage. During the 1964-1965 season, for example, the College enjoyed performances by John Browning (pianist); the Roger Wagner Chorale and Orchestra; Carlos Montoya (flamenco guitarist); José Molina's "Bailes Españoles;" Erick Friedman (violinist); and Leon Bibb (baritone).

Under the sponsorship of the Fine Arts Department, travelling and purchase exhibits in painting, sculpture, architectural design, theatre and industrial arts are shown throughout each year in the Phi Beta Kappa Memorial Hall and the final exhibition annually is devoted to the work of students in the Fine Arts classes.

Musical Activities

The College offers many musical opportunities to the student for pleasure, participation, and cultural enrichment. The student may choose to attend a wide variety of performances of unusual interest selected from the William and Mary Concert Series, faculty and student recitals, and the Collegium Musicum Series. Participation in the College Choir, Chorus, Band, Orchestra, and small vocal and instrumental ensembles is possible for interested and qualified students. The Campus Center, College Library, and Music Department provide facilities for record listening. Faculty and students of the Music Department participate in the William and Mary Theatre presentations of musical productions.

The Music Department presents a series of programs with emphasis on music and performance of special historical interest. Known as the Collegium Musicum Series, it is open to the College and the community without charge. Included this year were Jerome

Jelinek and Rhea Kish, *Cello* and *Piano* Duo; Kimio Eto, *Koto;* Stanley Buetens, *Lute;* and Aline van Barentzen, *Piano.*

The William and Mary Choir, a select and mixed group, sings choral literature carefully chosen from among the best available sources. Formal concerts on campus, in the community, and on tour are part of the annual Choir agenda. The William and Mary Chorus, which is a group of women students of the College, provides music for various events on the campus and also appears in formal concerts.

The College Band serves as a dual organization during the academic year. For the football season, the Band performs as a marching unit, and is highlighted in pre-game and halftime shows, pep rallies, and parades, appearing at both home and away games. After the football season, the Band functions as a concert organization, presenting formal and informal concerts on campus and on tour.

The William and Mary Chamber Music Players is an organization devoted to the study and performance of the best in chamber music. The organization consists of a Chamber Orchestra, and smaller ensembles made up from the more advanced players of the orchestra. In addition to the annual spring concert the Chamber Music Players are active in many special performances including plays and dance recitals as well as concerts in the community.

Private instruction is available for interested and qualified students in piano, organ, voice, strings, winds, and harp. The Music Department sponsors a number of student recitals each year in which advanced students are afforded the opportunity and experience of public performance.

Television and Radio

The College operates one of the finest closed-circuit television facilities in the country as well as a 10-watt, noncommercial, FM radio station both located in Phi Beta Kappa Memorial Hall. Radio and television has a two-fold purpose at William and Mary: formal and adult instruction through these media, and curricular instruction of students in the practical application of broadcasts principles.

All students are eligible for participation in the activities of the radio station, WCWM. Students serve on the station as

producers, directors, announcers, writers and engineers. Opportunities are available in the television studios as boom operators, cameramen, and projectionists.

Religious Life

The College of William and Mary, though a Church of England foundation, has been since 1799 entirely nonsectarian. It avails itself fully of the cordial spirit of pastoral oversight which marks the various churches in the small and friendly city of Williamsburg. Many of the students participate in young people's organizations, among which are Balfour-Hillel, the Baptist Student Union, the Canterbury Association, the Channing Forum, the Christian Science Organization, the Lutheran Student Association, the Newman Club, the Wesley Foundation, and the Westminster Fellowship. Representatives of these organizations form the Student Religious Union, which asists in the College chapel services, and sponsors Religion-in-Life events throughout the year.

The College maintains a weekly vesper service in the beautifully restored chapel of the Wren Building. Brief meditations are given by members of the administration, of the faculty and of the student body, as well as by outside speakers. A student leader presides at each service. Attendance at these services is voluntary.

Men's Athletics

In the George Preston Blow Gymnasium, the men's gymnasium, are two basketball courts, a swimming pool, three handball courts, volleyball courts, showers, lockers, athletic administrative offices, a trophy room, and a social room. Cary Field provides for the following facilities: tennis courts, baseball field, stadium for football, track, and field athletics (seating capacity 15,000), practice fields for varsity and freshman football, and space for softball and intramural games.

The intramural sports program which is under the direct auspices of the Men's Department of Physical Education is designed to meet the needs and desires of all students as far as it is financially and educationally possible. The program evolves from the expressed desires of the students. The intramural director and other staff members of the Physical Education Department act primarily in organizational and advisory capacities.

Provision is made for participation in the following individual and team activities: badminton, basketball, bowling, free throws, golf, handball, horseshoes, softball, swimming, tennis, touch football, track and field, volleyball, and wrestling. League schedules and individual tournaments are arranged for dormitory, fraternity, and independent competition.

The general supervision of intercollegiate athletics for men has been delegated by the President to a faculty committee. The College is a member of the Southern Conference. H. Lester Hooker, Jr., is the Director of Men's Athletics, and Edmund T. Derringe is the Business Manager.

Varsity and freshman intercollegiate teams, under the supervision of a competent staff of coaches who are appointed for the full academic year, are offered the following sports: baseball, basketball, cross country, football, golf, gymnastics, swimming, tennis, track and field athletics and wrestling.

In addition to the above sports, the College offers National Rifle Association-affiliated Varsity and freshmen rifle teams. All required equipment including arms and ammunition are provided by the ROTC Department. Participants are eligible for varsity letters.

Women's Athletics

Sports are conducted by a joint committee of faculty and students. The program of physical education activities for women provides opportunity for intramural competition, interest groups, and limited participation in games with other colleges. Awards for accomplishment are the intramural emblem, varsity monogram, and individual honor awards.

Provision is made for intramural participation in the following activities: archery, badminton, basketball, bowling, hockey, softball, swimming, tennis and volleyball. Schedules are arranged for dormitory, sorority, and individual competition in groups or teams according to the ability of the participant. Tryouts are held each year for membership in the Synchronized Swimming Club and Orchesis, the dance club.

The Cornelia Storrs Adair Gymnasium provides facilities for fencing, badminton, volleyball, and basketball. The swimming pool and dance studio are located in this building.

The women's athletic fields provide ample space for outdoor activities including archery, hockey, lacrosse, softball and tennis.

SUPERVISION OF STUDENTS AND COLLEGE REGULATIONS

SUPERVISION OF STUDENTS

THE DEANS ENDEAVOR to follow carefully the progress and behavior of every student in College and by personal oversight and advice to insure proper conduct and attention to duties. The social activities of the women students, both within and without the College, are under the direction of the Dean of Women.

Reports showing the standing of students in their classes are sent to parents or guardians at the middle and the end of each semester. Students who in any semester make thirty-three quality points with at least 3 hours of A and at least 9 hours of B and with no grade below C, in academic subjects, and who do not receive a grade of F in required physical education and who make a quality point average of at least 2.0, are placed on the Dean's List for the following semester and are entitled to special privileges.

For guidance at registration each student is assigned a faculty adviser.

STUDENT'S PROGRAM

All students, other than graduate and part-time students, are required to carry the normal program of at least fifteen and no more than seventeen semester hours (counting courses in Physical Education), with the following regular exceptions:

(1) Any student may, with the consent of his adviser, carry eighteen semester hours (counting courses in required Physical Education).

(2) Seniors who can complete the degree requirements by carrying less than the normal program are permitted to carry as few as twelve semester hours.

(3) Veterans who have received credit for military service and who are not required to take Physical Education may be permitted to carry as few as fourteen semester hours in each semester of the freshman year.

Further deviations from the normal program, when warranted by special circumstances, will be permitted by the Committee on

Academic Status after the registration period; students desiring this permission should apply in writing to the Dean of Men or the Dean of Women. Only to exceptionally able students, however, will the Committee on Academic Status grant permission to carry more than eighteen semester hours.

CLASSIFICATION OF STUDENTS

A sophomore student must have completed at least twenty-four (24) credits in academic subjects, with at least twenty-four (24) quality points. A junior student must have completed at least fifty-four (54) credits in academic subjects, with at least fifty-four (54) quality points. A senior student expecting to graduate in June must have completed eighty-five (85) credits in academic subjects, with at least eighty-five (85) quality points. The social standing of every student is identical with the academic.

CHANGES IN REGISTRATION

In order to add a course to or drop a course from the program of courses for which they originally registered, men students must make application for such a change to the Dean of Men, and women students, to the Dean of Women. If the application is granted, the dean will then notify the Registrar of the change. The Registrar, in turn, records the change on the student's registration card and informs the instructor or instructors concerned. *Unless a course change has been made in that manner it has no official standing and will not be recognized as valid by the College.* After the first week of classes in a semester, the only course changes which are permitted by the deans are those initiated by the faculty and approved by the Dean of the Faculty.

WITHDRAWAL FROM COLLEGE

Students who desire to withdraw from College should apply to the Dean of Men or the Dean of Women for permission to withdraw. The permanent record card of any student who withdraws from College without permission from the proper dean will carry the notation "Withdrew unofficially."

It is the policy of the College to allow appropriate credit to students who are required by the Selective Service System or other military organization to withdraw from college during the

course of a semester to enter military service. The regulations defining this policy are available on request.

CONTINUANCE IN COLLEGE

A freshman must accomplish for the session at least 18 semester credits in academic subjects and earn at least 12 quality points. During the first semester he must pass at least five semester credits of academic work. An upper classman or an unclassified student must accomplish for the session at least 20 semester credits in academic subjects with at least 20 quality points. A student who has completed 4 semesters may not continue in college unless he has accumulated at least 40 semester credits in academic subjects and 40 quality points. A student who has not met the requirement pertinent to his status may not register either in the summer session or in the regular session, except by the advice and consent of the Committee on Academic Status. Finally, when a student is not profiting by his stay at college, or whenever his influence is detrimental to the best interest of the College, such a student may be required to withdraw.

A student who has failed to complete the requirements for the degree of Bachelor of Arts or Bachelor of Science within five years of residence in college will be automatically debarred from further attendance at the College; provided, however, that when a student has been permitted to reduce his schedule below that normally required, the total period of residence permitted for the completion of the degree requirements shall be extended in proportion to the reduction permitted. In the application of this regulation, each nine weeks' summer session will be counted as three-fifths of a semester.

ABSENCE FROM CLASSES AND FROM COLLEGE

An educational system centered upon classroom instruction justifies a set of regulations and procedures to aid in assuring satisfactory class attendance. These attendance regulations are designed by the faculty to limit the number of unnecessary class absences since irregular class attendance jeopardizes the student's progress and detracts both from instruction and from learning. These regulations provide that a large measure of individual



Women's Dormitories: Landrum, Chandler, Barrett (l-r)

Barrett Hall from the Campus side

Marshall-Wythe Hall from the Sunken Garden

The Queen's Guard, ROTC Drill Tean

responsibility be given to students on the Deans' Lists and to those in more advanced courses.

Registration

Students are expected to keep their registration appointments. Unless excused by the Dean of Men or the Dean of Women, students who fail to present themselves at the appointed time for registration will be placed on *absence probation.*

Class Attendance

1. Students are expected to be present at all their regularly scheduled classroom appointments.

2. All absences in 100 and 200 courses are recorded by the instructor. Whenever a student has accumulated a total of one unexcused absence per credit hour, the instructor shall report him to the Dean of Men or the Dean of Women, who will issue a warning to the student. The instructor shall immediately report any subsequent unexcused absence; on the first such absence, the dean will place the student on *absence probation.*

3. Students whose attendance, in the opinion of the instructor, becomes unsatisfactory in 300, 400, and 500 courses shall be reported to the Dean of Men or the Dean of Women. When such a report has been received, a warning shall be issued by the dean, and if a subsequent unexcused absence be reported in that course, the student will be placed on *absence probation.* Any additional unexcused absence in that course will make the student subject to suspension from the College by action of the Committee on Academic Status. The authority for excusing absences from 300, 400, and 500 courses is the instructor in the course.

4. Students, unless on the Deans' Lists, or unless excused by the Dean of Men or the Dean of Women, who fail to keep their last scheduled classroom appointment in each of their courses preceding and their first scheduled classroom appointment in each of their courses following the Thanksgiving, Christmas, and Spring holiday periods will be placed on *absence* probation.

5. After the completion of one semester of regular college work beyond the one in which the absence probation was incurred, absence probation will be removed.

A student placed on absence probation under any of the above provisions (whether for absence from a registration appointment, for absence immediately before or after a holiday, or for absence from classes at other times) who, before that absence probation is removed, incurs a second absence probation, shall be subject to suspension from the College by action of the committee on Academic Status, and if suspended, may not apply for readmission until a full semester has elapsed, but a student readmitted after such suspension shall not be considered as being on absence probation.

6. Attendance regulations, with the exception of registration appointments, do not apply to students on the Deans' Lists, or to those students who are enrolled in a course for which they will not claim college credit.

EXAMINATIONS

The examinations, given at the end of each semester, take place at the times announced on the examination schedule, which is arranged by the Dean of the Faculty and posted at least two weeks before the beginning of the examination period. Students are required to take all of their examinations at the time scheduled, unless excused on account of illness or other sufficient reason by the Dean of Men or the Dean of Women. Students should present their reasons for an expected absence to the proper dean in advance of the examination. No excuse on the ground of illness will be accepted unless it is approved by the College physician.

Deferred examinations are provided for students who have been excused by the Dean of Men or the Dean of Women from taking their examinations at the regular time. The deferred examinations for courses in the first semester are given in the fourth week of the second semester; the deferred examinations for courses in the second semester are given during the orientation period in September. Except under very exceptional circumstances students are not permitted to postpone the taking of a deferred examination beyond the first occasion thus regularly provided; and in no case will permission to take a deferred examination be extended beyond a year from the time of the original examination from which the student was absent. The schedule of the deferred examinations, arranged by the Dean of the Faculty, will be posted several days in advance of the time at which

they are given, and a copy of it will be mailed to each student who is entitled to take a deferred examination.

The College does not authorize re-examinations.

RESIDENCE

All undergraduate students except those coming daily from their homes, are required to live in the College residence halls. Exceptions to this regulation may be granted by the Dean of Students when good reasons for so doing exists. Married students may not reside in College residence halls.

All resident students who are classified as freshmen or sophomores are required to board in the College dining hall. For all other students, boarding in the College dining hall is optional.

Because of the excessively heavy demand for admission by many students who do not live within commuting distance of a college, there is an increasing obligation on the part of the College of William and Mary, as a residential institution, to accommodate as many such students as possible. In order to do so, it becomes necessary for the College to reserve its dormitory housing for those students coming from areas outside the immediate Williamsburg vicinity. Those students, therefore, who have a Williamsburg *mailing* address will not be permitted to reside in College housing until they have achieved junior standing, and then only if vacancies in dormitories occur whereby their accommodation would be permitted.

STANDARDS AND RULES OF SOCIAL CONDUCT

General Statement

Registration as a student at the College of William and Mary implies that the student will familiarize himself with the rules and regulations governing the conduct of students, and that he will abide by such regulations so long as he remains a student at the College.

When students, other than day students, are dropped from the roll or are required to withdraw for reasons other than academic, or are suspended for disciplinary reasons, they must forthwith leave the College and the vicinity. Until this requirement has been fulfilled, they remain subject to the authority of this institution and may be expelled. Such students may not visit the College or

attend a College activity without first obtaining permission from the appropriate dean, i.e. the Dean of Men or the Dean of Women.

The College assumes that men and women of college age are able and willing to maintain standards of self-discipline appropriate to membership in a college community. Therefore, the College purposely refrains from promulgating a rigid code of discipline. However, it reserves the right to take disciplinary measures compatible with its own best interest.

The discipline of the College is vested in the President by the action of the Board of Visitors. Cases involving minor infractions of discipline are handled through the offices of the Dean of Men and Dean of Women, respectively. Serious infractions are considered by the Discipline Committee, which represents administration, faculty, and students. When men and women are jointly involved in misconduct or violations of College regulations, they will be held equally responsible.

Aside from cheating, lying, and stealing, which fall under the Honor System, and infractions of the rules set down by the Women Students' Cooperative Government Association and enforced by the Judicial Committee, the fundamental test for disciplinary action by the College authorities is whether the behavior complained of tends to throw discredit on the name of the College of William and Mary or to manifest undesirable conduct on the part of the students. The College reserves the right at any time to suspend or dismiss a student whose conduct or academic standing is in its judgment unsatisfactory.

Marriage

1. Students Under Twenty-One

Any minor student who marries without the full knowledge and consent of his or her parents will be required to withdraw. Such consent must be obtained in writing by the parents at least a week prior to the marriage.

2. Students Over Twenty-One

A student twenty-one years of age or over must give written notice in advance of his or her intention to marry. Failure to do so may result in dismissal from the College.

Manners and Habits of Living

Manners and behavior that would not be tolerated in the student's home cannot be tolerated in the classroom, the dining halls, or the residence halls. The College highly approves of regular habits of living, and these include hours of rising and retiring that are compatible with regular classroom appointments and regular study habits. Long experience has shown a striking correlation between irregular and slovenly habits of living and lack of adequate performance in the classroom.

Students are expected to keep their rooms reasonably neat and tidy at all times. It is also expected that a student's dress and conduct in the dining hall be consistent with that of his home life.

Dress

Maintenance of high standards of personal dress which characterize the women students of the College of William and Mary necessitates the establishment of certain regulations concerning the wearing of sports attire. Shorts, pedal pushers, slacks, dungarees, gym suits, or other such clothing are not to be worn in public or in academic buildings (including the library). Specific regulations concerning the wearing of dungarees or Bermuda shorts outside the residence halls may be found in the Women's Dormitory Association Handbook.

Vandalism and Disturbances

In general, the College strongly disapproves of all forms of vandalism and disturbance. Students who deface property or destroy fixtures will be dealt with summarily. The defacement or destruction of state property is a violation of the laws of the Commonwealth of Virginia. Students who through noisiness or other disturbance continually annoy their neighbors or who participate in riots or mob action will be required to withdraw.

Hazing

Hazing, or the subjection of a student to any form of humiliating treatment, is forbidden. The hazing of students in a state-supported institution is a violation of the laws of the Commonwealth of Virginia.

Alcoholic Beverages

The College wishes to encourage and to promote the highest standards of conduct and personal behavior on the part of William and Mary students. Since the College does not believe in the use of alcoholic beverages by students, a statement of policy is necessary in the interests of the College community.

The possession or consumption by William and Mary students, or their guests, of alcoholic beverages of any kind, or alcoholic content anywhere on the campus or in any College building, residence hall, sorority house, or fraternity lodge is prohibited; nor may alcoholic beverages of any kind or content be served or consumed at any dance or other social function given in the name of the College or sponsored by any student organization or group. It shall be the responsibility of the sponsoring student organization or group and its officials to enforce this regulation. Violation of this regulation may be punished by loss of social privileges, probation, suspension, or separation from the College.

Participation in Extracurricular Activities and Eligibility for Class Office

Students are required to pass twenty-four semester credits during the previous year before they may represent the College in athletic contests, intercollegiate debate, dramatic productions, or other similar extracurricular activities.

No student shall be eligible to hold a class office unless he is a member in good standing of the class which he seeks to represent.

Public Performances and Parties

No person or group of persons associated with the College of William and Mary shall give either in Williamsburg or elsewhere a public performance of any kind unless prior to the first rehearsal the said person or group of persons shall have obtained from the office of the President permission to present the entertainment. In order to secure permission, those in charge of the performance must make written application to the President of the College.

AUTOMOBILE REGULATIONS

General Statement

By regulation of the Board of Visitors, students are not allowed to have automobiles, except by special permission, which is to be secured from the President through the Dean of Men. When a student has secured special permission to have or operate an automobile, it is expected that the use of the automobile will be limited to the purposes for which the permission is granted.

Application of the Regulation

1. Except as noted below, no student shall, while College is in session, maintain or operate a motor vehicle in Williamsburg or vicinity.
2. Storing or otherwise keeping an automobile in Newport News or Richmond or other places in this area for occasional use is a violation of this regulation.
3. A student who rides in a car which is used in violation of this regulation will be held equally guilty with the owner or driver.
4. If a student wishes to bring his luggage to the College in an automobile, that automobile must be returned to his home before 6:00 p.m. of the day preceding the day on which classes begin. A student must not bring an automobile to the College unless he can provide for its removal from Williamsburg at that time.

Special Permissions and Exceptions to the Regulation

1. *Special Permission*

(A) Special permission to have automobiles at the College will be granted to physically handicapped students whose disability makes it necessary that they have access to automobile transportation.

(B) Special permission will be granted to those students who can demonstrate that an automobile at the College is essential to necessary part-time employment in Williamsburg.

(C) Candidates for the Bachelor's Degree at the June Commencement are granted special permission to bring automobiles to Williamsburg on the Friday immediately preceding Commence-

ment day and to keep these automobiles at the College until the conclusion of the session. This special permission does not apply to other students.

2. Exceptions to the Regulation

(A) Married Students and Day Students

The automobile regulation will not be applied to married students whose families are residing in Williamsburg or to day students who commute to the College from their homes.

(B) Candidates for Master's and B.C.L. Degrees

Students who have been accepted as candidates for the Master's Degree and students who have received the Bachelor's Degree and who are studying for the B.C.L. Degree will be exempt from the regulation.

Registration Requirements

1. Registration of Vehicles

All students having automobiles, including day students, students granted special permission to have automobiles and students exempt from the regulation, must register their cars at the Office of the Dean of Men and at the Office of the Superintendent of Grounds and Buildings and are subject to the Student Motor Vehicle Rules and Regulations.

2. Williamsburg City Tag Requirements

Every student who keeps a car within the City of Williamsburg for 60 days or more (whether consecutive or not; whether an out-of-state car or not; whether owned by him in whole or in part or not) must procure annually a City tag and keep it attached to his car while driving on any public street or alley within the corporate limits of the City. The year is from January 1 to December 31. The cost of the tag is $10.00 for a full year.

Penalty for Violation of the Regulation

Students who violate the automobile regulation will be subject to dismissal from the College.

STUDENT PERSONNEL SERVICES

HEALTH SERVICE

THE PURPOSE of the Health Service is fourfold: (1) improvement of the health of the students; (2) prevention of diseases; (3) supervision of campus sanitation, which includes inspection of sanitary conditions of cafeterias, dining halls, dormitories, and swimming pools; and (4) instruction of students in matters essential to healthful living.

The Health Service is housed in the David King Infirmary, a modern, fireproof building containing out-patient clinic, dispensary and waiting rooms, diet kitchens, nurses' quarters, and fifty-bed infirmary.

A health certificate is required of all entering students. During each semester, each student is entitled to the use of the Medical Services. The medical services are as follows:

1. Medical care in the Health Service clinic for minor and incipient illness and accidents. Necessary staple drugs and dressings are included.
2. Health consultation service with the medical staff.
3. Special medical examinations for certification of students which is required for participation in intercollegiate athletics and other forms of strenuous activity.
4. A medical examination, by the College physician, of all freshmen, transfer students and students who are reinstated following withdrawal for illness or other cause. Recommendations to the Physical Education Department and to scholastic counselors are then made regarding the physical condition of the student thus enabling him to arrange his program within his physical capacities.
5. Hospitalization in the Health Service infirmary for a limited period, for minor and incipient illness when bed care is advised by the College physician. The College does not, however, assume the cost of special nurses, consulting physicians, surgical operations, X-ray or laboratory tests, care in other hospitals, or special medications. Meals are charged the student at the prevailing dining hall rate.

The College Health Service provides the services listed above, but it lacks facilities for prolonged hospitalization, post-operative care and special diets. Students who require these facilities will be permitted to withdraw from the College for medical reasons without prejudice to their academic records.

THE PSYCHOLOGICAL COUNSELING CENTER

The Psychological Counseling Center offers counseling to students in two major areas: Personal counseling, or helping to deal more effectively with problems of social and personal adjustment, and vocational counseling, involving the planning of a major course of study or the pursuit of an appropriate vocation or career upon graduation. The Counseling Center, however, deals with whatever problems a student might have, regardless of category, either by working directly with the individual or by making appropriate referrals.

Various tests are sometimes used by the Counseling Center as a means of more effectively assisting a given individual in dealing with his particular problem. This means that testing is not done routinely, but may be recommended as part of a careful assessment of the individual student's needs and goals. Regardless of the type of problem brought in by the student, all activities and records of the Counseling Center with respect to the student's relationship to the Center are completely confidential.

In addition to its individual counseling activities, the Counseling Center serves as a regional center for the administration of certain national testing programs. This is done primarily as a service to William and Mary students, particularly those who are candidated for advanced academic work. Included are the Graduate Record Examinations, The Law and Medical Aptitude Tests, and the Miller Analogies Test.

BUREAU OF SENIOR AND ALUMNI PLACEMENT

The College maintains a Placement Bureau for seniors and alumni through which nonteaching placements are made. This faculty-sponsored organization helps seniors to obtain employment with business and industrial organizations. At the same time it assists business and industry in obtaining a trained body of men and women. The Placement Office also offers its services to the

alumni who are seeking job transfers after they have been out of college a number of years. Frequent requests come from industrial and business concerns for men who are available for employment and who have had experience.

Personnel records of seniors and alumni are made available to professional, governmental and business organizations interested in employing men and women from the College. The Placement Bureau maintains cordial relationships with many employers and devotes considerable effort each year to placing in permanent positions those students who seek employment. Company representatives are invited to the campus to confer with students and to discuss not only the qualifications necessary for success in their special fields but to explain business opportunities and to make job offers to graduates. In recent times representatives of nationally recognized business concerns have been visiting the campus at the rate of about one hundred per year. These representatives are given every assistance in their recruiting programs. Free services of the Bureau include vocational counsel and personal aid in securing satisfactory positions.

THE SOCIETY OF THE ALUMNI

THE SOCIETY of the Alumni of the College of William and Mary in Virginia was founded in 1842 and incorporated on March 17, 1923. Its purpose is to organize the alumni of the College of William and Mary in one general body, in order to keep alive the memories of college life and promote the welfare of the College. Any alumnus who has completed one regular college semester at the College in Williamsburg and has received honorable dismissal is eligible for membership in the Society. Contributors to The William and Mary Fund are accorded all membership privileges. *The Alumni Gazette,* the official publication of the Society, is sent to all living alumni.

The officers of the Society are: George Dewey Sands, Jr., '39, President; Alphonse Felix Chestnut, '41, Vice President; Kathryn Leigh Chriswell (Sweeney), '35, Secretary-Treasurer; James Sands Kelly, '51, Executive Secretary.

The members of the Board of Directors of the Society are:

To December 1965—Anne Dobie Peebles, '44, Carson, Virginia; E. Cotton Rawls, '27, Stamford, Connecticut; George Dewey Sands, Jr., '39, Williamsburg, Virginia; Kathryn Leigh Chiswell (Sweeney), '35, Lynchburg, Virginia; Walter Joseph Zable, '37, San Diego, California.

To December 1966—Dorothy Baynham Wilkinson (Campbell), '25, Winston-Salem, North Carolina; Robert Harvey Chappell, Jr., '48, Richmond, Virginia; Nancy Jane Grube (Williams), '46, Bethesda, Maryland; Harry Day Wilkins, '24, Eastville, Virginia; Dixon Littlebury Foster, '44, Irvington, Virginia.

To December 1967—John Arthur Barba, Jr., '40, Short Hills, New Jersey; Alphonse Felix Chestnut, '41, Morehead City, North Carolina; John N. Dalton, '53, Radford, Virginia; Otto Lowe, Jr., '55, New York, New York; A. Addison Roberts, '35, Malvern, Pennsylvania.

The members of the Alumni Board of Trustees of the Alumni Endowment of the College of William and Mary are: Jay Wilfred

Lambert, '27, Williamsburg, Virginia; Robert A. Duncan, '24, Williamsburg, Virginia; Robert Stanley Hornsby, '41, Williamsburg, Virginia; Edward Nelson Islin, '25, Newport News, Virginia; ex-officio—the President of the Society of the Alumni.

William A. Molineux, '56, is the Editor in Association with James S. Kelly of *The Alumni Gazette.*

The Alumni Office is located in The Brafferton.

FEES AND EXPENSES

THE COLLEGE RESERVES THE RIGHT TO MAKE, WITH THE APPROVAL OF THE PROPER AUTHORITIES, CHANGES IN TUITION AND OTHER FEES AT ANY TIME.

Payment of Accounts

Principal fees, and room and board fees are payable in advance by the semester, remittance being made by check drawn to the College of William and Mary. The College has a special payment plan for those who are unable to pay the entire semester account by the date of registration. Information concerning the plan may be obtained by writing the Treasurer-Auditor's Office. Failure to meet the payments when due results in automatic suspension of the student from the College until the account has been brought up to date.

Students will not be allowed to complete registration unless their registration cards have first been approved by the Treasurer-Auditor's Office. This preliminary procedure can be accomplished by mail and should be completed upon receipt of the student's statement of account.

Students who present themselves for registration without making preliminary arrangements must be prepared to pay their accounts in full. Otherwise, their registration will be delayed until satisfactory arrangements have been made.

First semester accounts or first payments on accounts under the special payment plans are *due on or before September 5*. Second semester accounts are *due on or before January 15*.

Refunds to Students Withdrawing

Subject to the following regulations and exceptions, all charges made by the College for room, board and fees are considered to be fully earned upon the completion of registration by the student.

1. A student withdrawing within a period of five days after the scheduled registration period is entitled to a refund on charges except that $10.00 shall be retained by the College to cover the expense of registration. (These refunds shall not include any

deposits or advance payments that may have been required by the College as evidence of the student's intention to enroll, or the amount of $12.00 charged for board for students who attend the orientation period.)

2. A student withdrawing at any time within the first 30 days after the scheduled period of registration shall be charged 25 per cent of the semester's room rent and fees.

3. A student withdrawing at any time within the second 30-day period after the scheduled registration shall be charged 50 per cent of the semester's room rent and fees.

4. A student withdrawing at any time after 60 days following the date of registration shall be charged the full semester's room rent and fees.

5. No refunds of fees or room rent will be made to a student who has been required to withdraw by the College regardless of the date of withdrawal.

6. No refund of room rent will be made to a student who has been required to withdraw from a dormitory because of marriage.

7. In cases of withdrawal from College, charges for board will be calculated on a pro-rata basis.

Credits on Accounts of Scholarships Holders

Students holding scholarships are required to pay all fees less the value of the scholarship which they hold.

Students holding scholarships (except Merit Award Scholarships) and student positions must board in the College dining hall and room in College-owned dormitories.

Withholding of Transcripts and Degrees in Case of Unpaid Accounts

Transcripts or any other information concerning scholastic records will not be released until college accounts are paid in full. Degrees will not be awarded to persons whose college accounts are not paid in full.

Cashing of Student Checks

The College does not have facilities for handling deposits for students' personal expenses but the Treasurer-Auditor's Office is

prepared to cash checks up to $25.00. All such checks should be made payable to the student or to cash. Under our regulations as a State institution, we are not permitted to cash checks made payable to the College of William and Mary.

FEES AND OTHER EXPENSES

Tuition and General Fee ($196.00 per semester for State Students and $404.50 for Out-of-State Students) is a payment towards the general maintenance and operating costs of the College including recreational and health facilities. (Board, room and laundry are additional.)

The Act affecting residency is as follows:

"Be it enacted by the General Assembly of Virginia, That no person shall be entitled to the admission privileges, or the reduced tuition charges, or any other privileges accorded by law only to residents or citizens of Virginia, in the State institutions of higher learning unless such person has been domiciled in and is and has been an actual bona fide resident of Virginia for a period of at least one year prior to the commencement of the term, semester, or quarter for which any such privilege or reduced tuition charge is sought, provided that the governing boards of such institutions may require longer periods of residence and may set up additional requirements for admitting students."

Laundry Fee

The fee ($16.00 per semester) covers the laundry requirements of the average student and is required of all students living in dormitories, sorority houses and fraternity lodges.

Board

The College operates a large cafeteria and a snack bar, together seating over 800 persons. The dining halls are not operated for profit.

All students who are officially classified as freshmen and sophomores and who are dormitory residents (including residents of the College-owned sorority houses and fraternity lodges) will be charged for board at the rate of $225.00 per student per semester for the period beginning on September 13, 1964. (Students

entering for the orientation period beginning September 13, 1965, will be charged an additional $12.00.) Board is payable in advance unless special arrangements are made with the Treasurer-Auditor's Office.

Each student will be issued a Dining Hall Card which entitles that student to three meals daily for a period of approximately 120 days during the semester. The Christmas and Thanksgiving recesses during the first semester and the spring recess in the second semester are not included in the 120 days for which board is charged.

The Dining Hall Card will not be usable in the Wigwam (Coffee Shop).

The daily menus afford a choice of salads, desserts and beverages. There is no choice of entrees or vegetables served at each meal except on Friday.

It shall be optional with students not living in dormitories and students other than freshmen and sophomores whether they board in the College Dining Hall. They may elect to board by the semester in the Dining Hall in which case the charge for board will be $225.00 per student per semester of approximately 120 days, or they may purchase a monthly Dining Hall Card for $58.00 which will entitle the holder to three meals per day for a thirty-day month.

In cases of withdrawal from the College, the student will be given a refund calculated on a pro-rata basis determined by the date of official withdrawal, provided the Dining Hall Card is surrendered to the Treasurer-Auditor on this date.

Owing to uncertain conditions prevailing with respect to the cost of food supplies and of food service, the College reserves the right to change its rates for board at any time throughout the year to meet such additional costs.

Room Rent

Men: Room rent in the men's dormitories varies from $55.00 to $165.00 per semester depending on the size of the room, location, bath, etc.

Women: Room rent in the women's dormitories varies from $100.00 to $165.00 per semester depending on the size of the room, location, bath, etc.

ESTIMATE OF SEMESTER EXPENSES

	Low	*Medium*	*High*
Board	$225.00	$225.00	$225.00
Tuition and General Fee (State Student)[1]	196.00	196.00	196.00
Room Rent	55.00	85.00	165.00
Laundry	16.00	18.00[2]	20.00[2]
Totals	$492.00	$524.00	$606.00

INCIDENTAL EXPENSES

It is impossible to estimate the exact cost to students of clothing, travel and incidental expenses. These are governed largely by the habits of the individual. The College endeavors to cultivate frugality on the part of the students, and equally to minimize temptation to extravagance. The size of Williamsburg aids materially in this matter by not subjecting the students to the diversions of a larger city. As the demands for extra money are small, parents are advised to furnish only a small sum.

The cost of books depends somewhat on the courses taken, but will seldom be less than $75.00 a year and does not usually exceed $100.00 a year.

Money for books cannot be included in checks covering college expenses; books should be paid for in cash or by separate check when purchased. Checks for books should be made payable to the William and Mary Bookstore.

NON-RECURRING FEES

Application fee	$10.00
Room deposit	25.00
Room change fee	5.00
Bachelor's diploma	10.00
Master's diploma	10.00
Academic costume rent to seniors	5.00

[1]For out-of-State students add $208.50.
[2]For excess over and above normal requirement.

Application Fee—A non-refundable processing fee of $10.00 is required with undergraduate freshmen and transfer applications for admission to the College. This fee is not credited to the student's account. Students applying for admission from Christopher Newport and Richard Bland Colleges are excluded from payment of this fee.

Room Deposit—A deposit of $25.00 is required by the College for a student to reserve a room. This payment is made to the Treasurer-Auditor and is applied on the student's regular college account.

This deposit may be made by students already enrolled at any time after the beginning of the second semester, but *must* be paid before May 1. No rooms will be reserved for students who have not paid their room deposit by the specified date.

The room deposit will be returned only to those students who cannot be accommodated in the dormitories or who cancel their reservations on or before July 1.

Students enrolling for the first time may not make a room reservation deposit until they have been notified of their admission to the College. The room deposit for entering students is not refundable.

Room assignments for women will be made by the Assistant Dean of Women. Room assignments for men will be made by the Assistant Dean of Men. Assignments will be made in order of priority of application.

Room Change Fee—Students are given two weeks to become settled in their rooms. Changes after this period will only be permitted after the payment of $5.00.

Diplomas—The charge for the Master's diploma is $10.00, and the charge for the Bachelor's diploma is $10.00. These fees are payable at graduation.

Academic Costumes—Both senior and graduate students are furnished an academic costume at the cost of $5.00. This fee is payable at graduation.

ADMISSION TO THE COLLEGE

BY ACT OF THE General Assembly of Virginia, men and women are admitted to the College on the same conditions.

Applicants for admission must present their applications on printed forms obtained from the office of the Dean of Admissions. While priority of application does not guarantee selection, candidates should plan to apply before December 1. Assignments to rooms are made after selection for admission, in the order of date of application for admission.

The first selection of applicants will be made as soon as practicable but not later than March 31. Candidates will be notified of the action of the Committee on Admissions as soon after the completion of their applications as is feasible.

THE SELECTIVE PROCESS OF ADMISSION

The essential requirement for admission to the College of William and Mary is graduation in the upper half of the class from an accredited secondary school, with a minimum of sixteen units or the equivalent of this requirement as shown by examination. Candidates for admission from secondary schools requiring more than the normal four years for graduation may be accepted when their transcripts show the full equivalent of graduation from a four-year secondary school in the upper half of the class.

Since the number of applicants who meet the essential requirement is considerably in excess of the number that can be admitted, the College selects those who present the strongest qualifications in scholarships, character, and breadth of interests.

The high school record, the recommendation of the principal, test scores and such other sources of information as may be available will be utilized in determining the applicant's fitness for selection.

Scholarship

Evidence of superior achievement in the secondary school is considered of prime importance in determining selection for admission. High rank in the graduating class will be taken as presumptive evidence of superior scholarship and will weigh heavily in the applicant's favor.

Although the College does not prescribe specifically the high school units to be presented, preference will be given to candidates who present at least four units in English, three in a foreign language (ancient or modern), or two in each of two foreign languages, two in history, three in mathematics, and two in science. The remainder of the sixteen units should consist of additional credits in these preferred subjects.

Personal Qualifications and Ability to Adjust

Evidence of good moral character and of such traits of personality as will make for desirable adjustment to the College will be considered of importance comparable to the student's academic achievement; such characteristics as determination, enthusiasm, self-discipline, imagination and ability to work with others are important, and it is understood that these terms necessarily deal with intangibles. In general, however, the student whom the College desires to enroll is the person of genuine intellectual ability and moral trustworthiness; in addition, he or she should possess the qualities that will make for friendly and congenial relations in the College group. Recommendations from alumni may be requested when the College deems them necessary. Also, other references may be asked to supply information pertinent to the character and other qualifications of the candidate.

Performance in Extracurricular Activities

A record of interested participation in extracurricular activities when accompanied by good achievement in the field of scholarship increases the likelihood of the applicant's selection. The Committee, therefore, takes into account the participation of the candidate in such fields as publications, forensics, athletics, and the arts.

Tests of the College Entrance Examination Board

Freshman applicants must take the Scholastic Aptitude Test and *three* Achievements Tests of the College Entrance Examination Board. The Achievement Tests must be taken in English Composition, Foreign Language — preferably in the language that the student plans to continue in college, and Mathematics — Level I (Standard) or Level II (Intensive). The College recom-

mends that these tests be taken in December of the final year in secondary school. There are no specific scores required, since the results of these tests are used with other information in determining the student's academic potential and for counseling and placement. Information regarding these tests may be obtained by writing to the College Entrance Examination Board, Box 592, Princeton, New Jersey and the applicant must request that his scores be reported directly to the College from that agency.

Interviews

Interviews are not usually required and are used primarily for general information purposes. If after reviewing the record of an applicant, the Committee on Admissions desires additional information, an interview may be required by an alumnus or a member of the Admissions Staff. Unless the interviews is specifically requested by the Dean of Admissions, the fact that the applicant is unable to talk with a member of the Admissions staff will have no bearing on his application. Individuals who plan to visit the College should contact the Office of Admissions in advance in order that a specific time and date can be arranged.

Admission of Transfer Students

In order to admit as large a freshman class as possible, preference is given to those students who wish to enter the College directly from secondary schools; therefore, the admission of transfer students is very limited.

In order to be considered for admission, the applicant must have maintained an overall "C" average in courses taken for credit in other institutions.

No student may be considered for admission to the College (undergraduate, graduate, or law) unless he is, or at the time of departure was, in full academic and social good standing at his previous institution or institutions and unless an official transcript or other communication from said institution indicates this fact and the fact that he is entitled to honorable dismissal.

Veterans of Military Service

Veterans of military service who are applying for undergraduate admission are required to submit form DD-214, indi-

cating that they were released from service under honorable conditions. This form may also be requested from law and graduate applicants.

Early Decision Plan

The College admits a limited number of freshman students under the Early Decision Plan. This is a special plan designed to reduce the burden of the admissions process for those applicants who are considered highly desirable for admission by the College and who fully intend to matriculate. Students applying for early decision should possess high academic qualifications and have decided that William and Mary is their first choice of Colleges. Early decision applicants who are not selected under this plan will be considered in relationship to other applicants for available spaces under the regular admissions process.

Procedure to be used in Applying for Early Decision

1. Submit preliminary application card and application fee. Beginning in August preceding the final year in secondary school, all applicants who have submitted preliminary application card with fee will be sent a personal application form with complete instructions and a letter of intent to be submitted in applying for admission under the Early Decision Plan.

2. Applicants applying for admission under the Early Decision Plan should plan to take the Scholastic Aptitude Test in May or July before the beginning of the senior year and the Achievement Tests in December of their final year in secondary school.

3. Submit personal application, letter of intent, secondary school record, and Scholastic Aptitude Test scores before November 1 of the senior year.

4. The Office of Admissions will notify the candidate of the action taken on his application for early decision by November 15.

5. The applicant who has been notified of his acceptance by the Office of Admissions must signify his final intention to enroll in the College by paying a non-refundable deposit by December 1.

The Advanced Placement Program

The College participates in the Advanced Placement Program of the College Entrance Examination Board. This program offers to able and ambitious students, who have a strong preparation,

the opportunity to qualify for advanced placement and credit in Biology, Chemistry, English, History, Latin, Mathematics, Modern Languages and Physics.

Successful candidates for admission who wish to be considered for advanced placement and credit should take the Advanced Placement Tests of the College Entrance Examination Board and have these scores reported to the College. After consideration of the test papers and other evidence concerning proficiency in the subject area, the student will be informed of the decision of the department concerned regarding advanced placement and credit. Students who are successful in gaining advanced placement and credit will be provided with more time than normal to pursue courses in areas related to his field of concentration or in other areas of interest, rather than the repetition of courses in which proficiency has been established by work on the secondary school level.

ADMISSION TO GRADUATE STUDY

Application forms for admission to graduate study should be requested from the office of the Dean of Admissions, or from the Chairman of the Department concerned. Beginning graduate students are accepted for September and February of each year.

Students are admitted either to regular graduate status or to unclassified status. All applications for admission to graduate status are subject to the recommendation of the head of the department in which the applicant plans to do his major work and approval of the Graduate Council, except in the case of organized schools in which instance the applicant must be approved by the school involved.

Evidence of good moral character and of such personality traits as will make for a desirable adjustment to the College will be considered of comparable importance to the student's academic achievement. An interview with an official or an alumnus of the College may be required. Recommendations by officials at a candidate's undergraduate college will be required and these recommendations will be considered carefully when the candidate's application is reviewed.

Graduate Record Examination

Applicants for admission to regular graduate status may be required to take the Graduate Record Examination. Applicants

will be notified by the department concerned, if the examination is to be required. Information about this test may be obtained from the Educational Testing Service, Princeton, New Jersey.

Degree of Master of Arts

The admission requirements for the degree of Master of Arts are as follows:

I. The applicant for admission to graduate study must have completed the requirements for a Bachelor's degree in an institution of approved standing. He must have achieved a quality point average of 1.5 or its equivalent, and must have the recommendation of the head of the department in which he intends to do his major work (the department head may also request specific exceptions to the 1.5 average in the admission requirement). All applications are subject to approval by the Graduate Council.

II. Graduate work taken prior to admission to candidacy will be credited toward the M.A. degree only with the approval of the Graduate Council.

ADMISSION TO THE LAW SCHOOL

Application forms for admission should be requested from the Dean of the Marshall-Wythe School of Law. Applicants will be sent the usual forms which should then be completed and returned. Beginning students in law are accepted in September and February of each year.

Applicants must have at least a 1.3 quality point average or its equivalent in their over-all undergraduate work (A—3 points, B—2 points, C—1 point, D—0 points), and a satisfactory score in the Law School Admission Test.

All candidates for the Bachelor of Civil Law degree must have received a Bachelor's degree from an approved college or university.

Within the discretion of the faculty of the School, persons of exceptional promise who fail to meet the above requirements may be admitted as special students and may take subjects in Law approved by the Dean of the School.

Students of academic junior standing who have completed one-half of the work and who have earned one-half of the quality points required for a baccalaureate degree within a period not exceeding five semesters may take a limited amount of work for business law or elective credit (but not for law credit), with the consent of the Dean of the School.

Combined Six-Year Program

Undergraduate students who have completed three-fourths of the work in quantity and quality required for a baccalaureate degree within a period not exceeding seven and one-half semesters may take courses in law for credit toward fulfillment of the requirements for the baccalaureate degree. Upon earning the baccalaureate degree at William and Mary with the requisite 1.3 quality point average and satisfactory Law School Admission Test score, the graduate may then apply for admission as a candidate for the Bachelor of Civil Law degree with advanced standing, receiving credit toward the fulfillment of the requirements for that degree for the law work successfully undertaken in his senior undergraduate year at William and Mary. Thus, in the pursuit of this program, the student may receive simultaneous credit toward fulfillment of the requirements of both the baccalaureate and law degrees for the work successfully completed in his undergraduate senior year.

Combined Six-Year Program in Conjunction with Other Approved Colleges

Undergraduate students of other approved colleges and universities which would give credit toward fulfillment of the requirements of the baccalaureate degree granted by such other institutions for the time in residence and work successfully completed at William and Mary may also participate in the combined six-year program. Students who have completed three-fourths of the work in quantity and quality within three-fourths of the maximum time permitted for the earning of the baccalaureate degree conferred by such other institution may be considered for admission as unclassified students to take courses in law for such undergraduate credit as the other institution may allow. Upon earning the baccalaureate degree of such other approved college with the equivalent of the William and Mary 1.3 quality

point average and satisfactory Law School Admission Test score, the graduate may then petition to have his status changed to that of candidate for the Bachelor of Civil Law degree with advanced standing, and, if approved, receive credit toward fulfillment of the requirements for that degree for the law work previously completed at William and Mary.

Transfers From Other Law Schools

Students from law schools approved by the American Bar Association who have received a baccalaureate degree and who are in good standing may apply for admission to this school as transfer students. If admitted, credit will be given for work done at other approved law schools not to exceed sixty semester hours provided such work has been of a quality well above passing.

Law School Admission Test

All applicants are required to take the Law School Admission Test which is given four times a year at various centers in the United States. The score secured on this test affords evidence of the applicant's aptitude for law study and is useful for counseling him as to his work. The results of such a test must be considered along with the applicant's personality traits; for such characteristics as courage, determination, enthusiasm, self-discipline, and ability to work with others are as important as natural ability. Information about this test may be obtained from the Educational Testing Service, Princeton, New Jersey. It is advisable that students pursuing the six-year combined program take this test before taking law courses in their senior year. The test must be taken prior to admission as a candidate for the Bachelor of Civil Law degree.

Other Factors

As in the case of undergraduate admission, evidence of good moral character and the ability to make a desirable adjustment to the College will weigh heavily in the consideration of applications for the Law School. An interview with an officer of the College or an alumnus of the College may be required. Recommendations by officials at a candidate's previous college will be secured by the Dean of the Law School, and these recommendations will be considered carefully when the candidate's application is reviewed.

REQUIREMENTS FOR DEGREES

THE DEGREES conferred in course are Bachelor of Arts (A.B.), Bachelor of Science (B.S.), Bachelor of Civil Law (B.C.L.), Master of Arts (M.A.), Master of Education (M.Ed.), Master of Arts In Teaching (M.A.T.), Master of Law and Taxation L&T.M.), and Doctor of Philosophy (Ph.D.) in Marine Science and Physics.

The requirements for degrees are stated in terms of "semester credits" which are based upon the satisfactory completion of courses of instruction. One semester credit is given for each class hour a week through a semester. Not less than two hours of laboratory work a week through a semester will be required for a semester credit. A semester is a term of approximately eighteen weeks or one-half of the college session.

EVALUATION OF CREDITS FROM OTHER INSTITUTIONS

The credits of students transfering from other institutions will be evaluated only tentatively upon matriculation. The final evaluation of credits earned at any time elsewhere than at this institution will be determined by the quality of work completed at this college. Evaluations of records are not made by the Committee on Degrees until after students have been selected for admission. In general, credits from accredited institutions are accepted provided they carry a grade of "C" or better and are comparable to courses offered at the College. No student may assume that credit will be given for work at other institutions until he has a written statement as to what credit will be expected. In particular, any student of the College in Williamsburg who proposes to attend a summer session elsewhere must have written permission in advance from the Chairman of the Committee on Degrees in order to insure that the credit may be transferred to the College in Williamsburg. Credits carrying a grade of "D" will not be accepted for transfer to the College of William and Mary. In determining the number of quality points on credits accepted from other institutions which may be counted toward the minimum of one hundred twenty required for graduation, credits of grade "C" or higher will be considered as having a value of "C". Credit for extension and/or correspondence courses in the field of con-

centration or for the requirements for the baccalaureate degree shall be limited to one-fourth of the total credit hours required. Normally, no more than sixty-two academic credits will be transferred from colleges accredited to offer only two years of academic work on the college level. It is the policy of the College not to grant credit for attendance in service schools or training programs in the Armed Forces unless it can be demonstrated that such attendance is the equivalent of a course or courses offered at William and Mary. Academic credit for courses taken while on military service at accredited colleges, universities or language institutes may be transferred in the normal manner. No credit will be granted for general military training or for the college level General Educational Development Tests.

SYSTEM OF GRADING AND QUALITY POINTS

The work of each student in each course in an academic subject is graded A, B, C, D, or F. These grades have the following meanings: A, superior; B, good; C, average; D, passing; F, failing. For each semester credit in a course in which a student is graded A he receives 3 quality points; B, 2; and C, 1. F carries no credit and no quality points. D carries credit but no quality points. The work in required physical education is graded S (satisfactory) or F (failed).

In addition to the grades A, B, C, D, and F, the symbols "G," "I", and "X" are used on grade reports and in the College records. "G" indicates that the instructor has deferred reporting the student's grade. "I" indicates that the student has postponed, with the consent of the instructor, the completion of certain required work other than the final examination. "X" indicates absence from the final examination. "I" automatically becomes F at the end of the next semester if the postponed work has not been completed. "X" automatically becomes F at the end of the next semester unless a deferred examination is permitted by the Committee on Academic Status.

REQUIREMENTS FOR THE DEGREES OF A.B. AND B.S.

The requirements for the degrees of Bachelor of Arts and Bachelor of Science are stated in the succeeding paragraphs under the following headings: I, General Requirements for the Degrees of A.B. and B.S., II, Distribution, Concentration, and Electives. III, Fields of Concentration. IV, Honors Program.

I. GENERAL REQUIREMENTS FOR THE DEGREES OF A.B. AND B.S.

One hundred and twenty-four semester credits are required for graduation. Of these one hundred and twenty-four semester credits, one hundred and twenty must be in academic subjects and four in required physical education. A minimum of 120 quality points in academic subjects is required.[1]

The student must make a minimum quality point average of 1.0 for all courses in the field of concentration for which he receives an official grade.

No degree will be granted by the College until the applicant has been in residence at least one college year and made a minimum of thirty semester credits at the College in Williamsburg. This period must include the last year of the work required for the completion of the degree.

Students transferring from other institutions should expect to spend at least two years in residence at the College.

II. DISTRIBUTION, CONCENTRATION, AND ELECTIVES

The credits required for graduation are to be secured in accordance with the following arrangement:

A. Distribution

The Distribution Requirements are designed to insure that a certain amount of every student's course work will be distributed among each of six different general areas of knowledge. The range of courses which *Bachelor of Science* students may take to satisfy the Distribution Requirements is more limited than that open to *Bachelor of Arts* students as indicated by the separate listings of basic requirements below.[2]

Basic Requirements for the Bachelor of Arts Degree

1. English Language and Composition
   (Eng. 101, 102, or 103, 104) — 6 semester credits

[1] "Academic subjects" means subjects other than required physical education.

[2] An entering freshman may receive a limited amount of credit or advanced placement in certain fields through satisfactory achievement on the Advanced Placement Tests of the College Entrance Examination Board or, in some instances, on other evidence of superior preparation in secondary school. These fields are Biology, Chemistry, English Composition, English Literature, American History, European History, Latin, Mathematics, French, German, Spanish, and Physics. Further information can be obtained from the Dean of Admissions.

English 201, 202, or Fine Arts 201, 202, or Humanities 201, 202 — 6 semester credits

2. Ancient or Modern Foreign Language — 6 to 14 semester credits

(a) A student who enters College with *less than two* high school units of a foreign language must acquire *fourteen semester credits in a single foreign language,* ancient or modern. Introductory courses in Greek and Latin meet four hours per week. Introductory courses in French, German, Italian, Russian and Spanish meet five hours per week (4 credits each semester).

(b) A student who enters with *two* high school units of a foreign language must acquire *twelve semester credits in that same language* beyond the introductory level or *fourteen semester credits in a single new language.*

(c) A student who, upon entrance, can demonstrate on a placement test the equivalent of a *three*-year high school knowledge of a foreign language must acquire *nine semester credits in that same language* or *fourteen semester credits in a single new language.*

(d) A student who, upon entrance, can demonstrate on a placement test the equivalent of a *four*-year high school knowledge of a foreign language must acquire *six semester credits in that same language* or *fourteen semester credits in a single new language.*

No credits will be counted toward the degree for the first semester of an introductory foreign language unless followed by the successful completion of the second semester of that language.

3. Mathematics or Philosophy 201, 202 — 6 semester credits
4. Biology, Chemistry, Geology or Physics — 10 semester credits
5. Physical Education 101, 102, 201, 202 — 4 semester credits
6. Economics 201, 202;[1] Government 201, 202,[2] History 101, 102; or Sociology 201, 202.[3] (Any two of these courses) — 12 semester credits

[1]Freshmen may elect Economics 201, 202.

[2]Freshmen may elect Government 201, 202 if they have completed *a year course in Modern European History* at either the secondary or college level.

[3]Freshmen may elect Sociology 201, 202 if they have completed *two units of secondary school preparation in social science courses,* including a minimum of one unit in World History and/or European History, or satisfactory achievement on the Advanced Placement Tests, or with the approval of the head of the department.

BASIC REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE

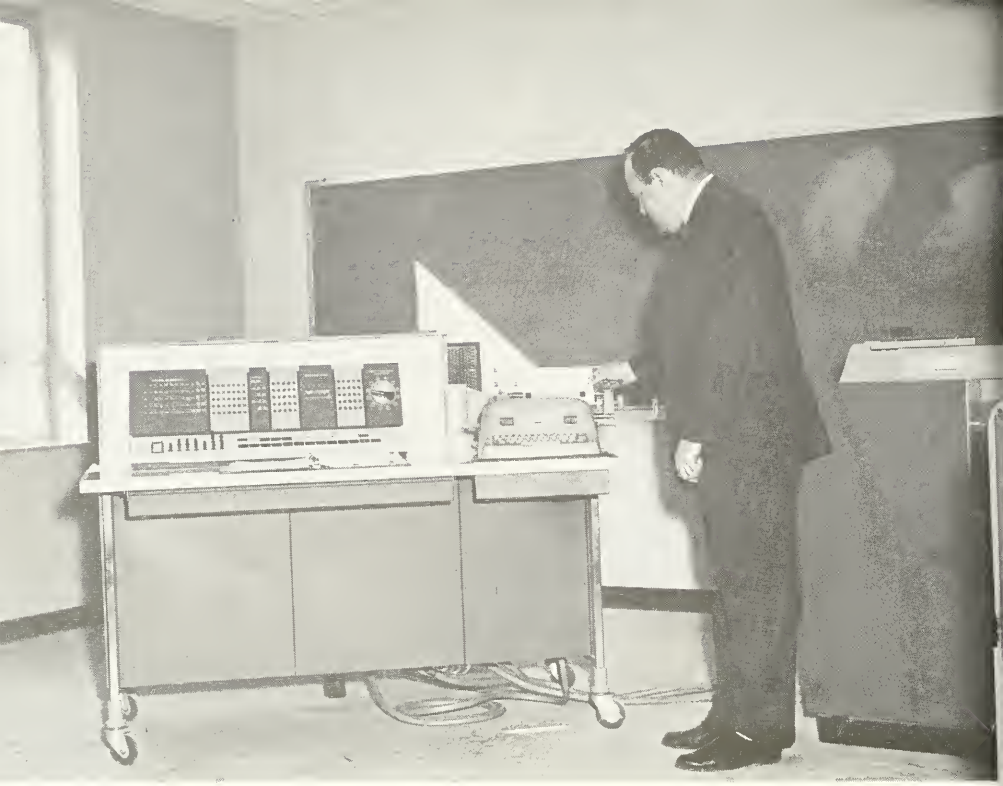
1. English Language and Composition
   (Eng. 101, 102, or 103, 104) 6 semester credits
   English Literature (Eng. 201, 202) 6 semester credits
2. Foreign Language (French, German, Russian[1])
   6 to 14 semester credits
   (a) A student who enters College with *less than two* high school units of a foreign language must acquire *fourteen semester credits in a single foreign language,* ancient or modern. Introductory courses in French, German and Russian meet five hours per week (4 credits each semester).
   (b) A student who enters with *two* high school units of a foreign language must acquire *twelve semester credits in that same language* beyond the introductory level or *fourteen semester credits in a single new language.*
   (c) A student who, upon entrance, can demonstrate on a placement test the equivalent of a *three*-year high school knowledge of a foreign language must acquire *nine semester credits in that same language* or *fourteen semester credits in a single new language.*
   (d) A student who, upon entrance, can demonstrate on a placement test the equivalent of a *four*-year high school knowledge of a foreign language must acquire *six semester credits in that same language* or *fourteen semester credits in a single new language.*
   No credits will be counted toward the degree for the first semester of an introductory foreign language unless followed by the successful completion of the second semester of that language.
3. Mathematics 6 semester credits
4. Biology, Chemistry, Geology, Physics 10 semester credits

In addition to satisfying the Distribution Requirement in Science, a candidate for the B.S. degree *must take a continuous course in a second and different science* selected from this group in accordance with the requirements of the Department in which the student is concentrating.

[1]Owing to limited instructional facilities, enrollment in Russian will be restricted. See Russian 101, 102.

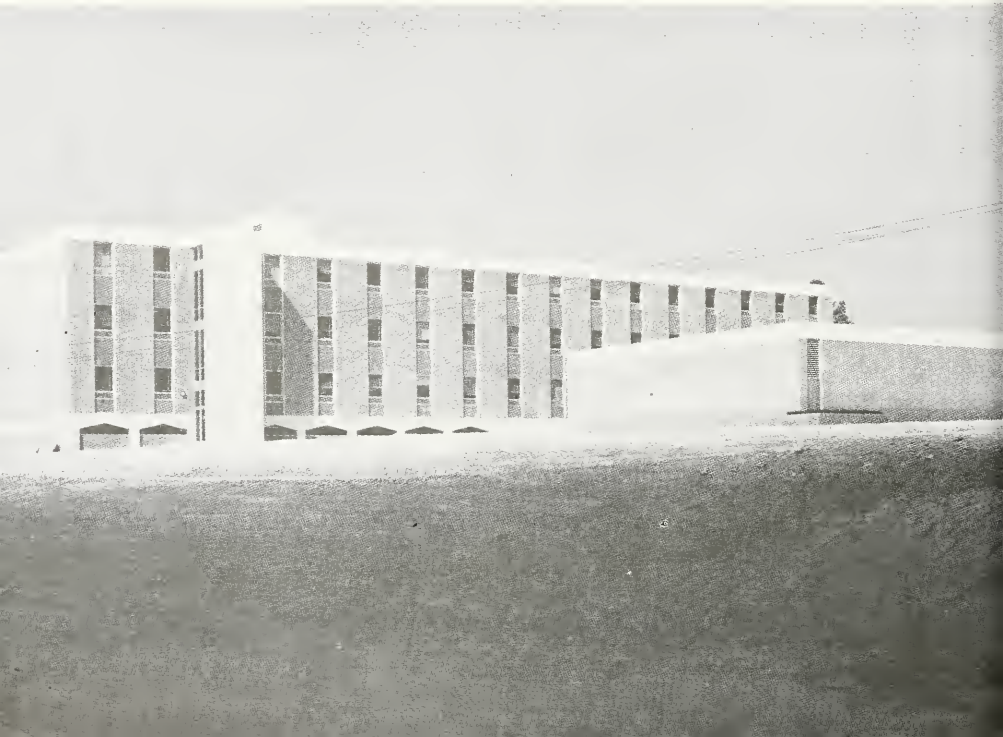


Bryan Hall, Home of the Marshall-Wythe School of Law, from the Portico of Old Dominion Hall



A Computer in the William Small Physical Laboratory

The Recently Completed William Small Physical Laboratory



5. Physical Education 101, 102, 201, 202 — 4 semester credits
6. Economics 201, 202;[1] Government 201, 202;[2] History 101, 102; or Sociology 201, 202.[3] (Any two of these courses) — 12 semester credits

All students who have completed less than 45 semester credits in academic subjects (except part-time students and students enrolled in pre-professional programs approved by the College) must carry in each semester at least three of the courses (not including Physical Education) which meet these distribution requirements. Unavoidable exceptions to this regulation must be approved by the Committee on Academic Status.

English 101, 102 and Physical Education 101, 102 must be taken in the freshman year. Physical Education 201, 202 must be taken in the sophomore year.

B. Concentration

Before the end of the sophomore year each student shall select a major department in which he shall concentrate during his junior and senior years. The following rules shall govern concentration:

(a) The whole program of concentration shall represent a coherent and progressive sequence.

(b) The student in consultation with the head of his major department shall select the courses for concentration. Of these, at least thirty semester credits must be with the major department.

(c) Each department may require as many as twelve additional semester credits in courses from that department or from other departments.

When a student concentrates in a field in which he has received credit for a distribution requirement, such credit shall be counted in the total field of concentration.

No student shall be permitted to apply toward a degree more than forty-two semester credits in a subject field. The subject fields include: Biology, Business Administration, Chemistry,

[1]Freshmen may elect Economics 201, 202.

[2]Freshmen may elect Government 201, 202 if they have completed *a year course in Modern European History* at either the secondary or college level.

[3]Freshmen may elect Sociology 201, 202 if they have completed *two units of secondary school preparation in social science courses*, including a minimum of one unit in World History and/or European History, or satisfactory achievement on the advanced Placement Tests, or with the approval of the head of the department.

Economics, Education, English, Fine Arts, French, Geology, German, Government, Greek, History, Latin, Law, Mathematics, Music, Philosophy, Physical Education for Men, Physics, Psychology, Sociology and Anthropology, Spanish, and Theater and Speech.

No student shall be permitted to apply toward a degree more than twenty-one semester credits in technical courses in any one subject field nor in any one department.

Students may apply twenty-seven semester credits in Elementary Education and twenty-four semester credits in Secondary Education respectively toward the A.B. degree.

C. Electives

Of the number of semester credits remaining for the completion of these degree requirements, at least nine semester credits must be chosen from departments other than those in which courses for concentration were selected.

III. FIELDS OF CONCENTRATION

Degree of Bachelor of Arts

The following departments are approved for concentration: Ancient Languages, Business Administration, Economics, Education, English Language and Literature, Fine Arts, Geology, Government, History, Law, Mathematics, Modern Languages,[1] Music, Philosophy, Physical Education for Men, Psychology, Sociology and Anthropology, and Theater and Speech.

NOTE: Students planning to concentrate in Modern Languages are required to take six semester credits of Latin or Greek.

Degree of Bachelor of Science

The following departments are approved for concentration: Biology, Chemistry, Geology, Mathematics, Physical Education for Men, Physics and Psychology.

Education (fifteen semester credits for teaching in the secondary school and eighteen semester credits for teaching in the elementary school) should be taken by students planning to teach.

[1]The Department of Modern Languages offers concentration in French, German, and Spanish.

NOTE: The twelve or fourteen semester credits of foreign language required for distribution must be taken in French or German or both by students planning to concentrate in Chemistry, with the exception of those who are preparing for medicine. Further, a reading knowledge of scientific German will be required of those students who wish to meet the minimum standards for professional training in Chemistry (see page 119).

Degree of Bachelor of Civil Law

For the requirements of this degree, see pages 192, 193.

IV. HONORS PROGRAM

The Honors Program provides special opportunities for the intellectual stimulation and development of superior students in certain departments through independent study. Departments participating in the program during the 1965-1966 academic session are Ancient Languages, Economics, English, Government, History, Modern Languages, Philosophy, Physics, Psychology, and Sociology and Anthropology.[1] Students in this program may, as the result of distinguished work, be awarded a degree with "Honors," "High Honors," or "Highest Honors."

I. *Eligibility, Admission and Continuance in the Program*

A. A student with a cumulative quality point average of 2.0 in academic subjects during the freshman and sophomore years may declare his intention to take honors work at the time of registration for the junior year and will be assigned an adviser by the head of the department in question.

B. At the beginning of his senior year, a student may be admitted to honors work in a department if he has a quality point average of 2.0 for the academic year immediately preceding and if he has satisfied his adviser and the other members of the department in which he wishes to work that he is an acceptable candidate, and if the department in question has sufficient available staff to provide for his instruction.

[1]See the descriptions under these departments for specific requirements.

C. The continuance of a student in the Honors Program is contingent on his maintaining what his major department judges to be a sufficiently high standard of work.

II. *Requirements*

A. The minimum general requirements for a degree with honors are the following:

1. Satisfactory completion of a course of reading and research supervised by a faculty member designated by the head of the student's major department. Six hours of credit in a course designated 495-496 in each department offering Honors shall be awarded each student satisfactorily completing the program.
2. Satisfactory completion of the degree requirements as specified on pp. 84-87.
3. Presentation of an Honors Essay or completion of an Honors Project acceptable to the major department. This requirement must be met by May 1 of the student's senior year.
4. Satisfactory performance in a comprehensive examination in the field of the student's major interest.

III. *Examining Committee*

A. Each comprehensive examination shall be set and judged and each Honors Essay or Project shall be judged by an examining committee of not less than three members, including at least one member of the faculty of the candidate's major department and at least one faculty member from another department.

B. Examining committees shall be appointed by the Dean of the Faculty.

IV. *Standards*

A. Final determination of a student's standing with respect to honors shall rest with his examining committee. The committee shall take into account (1) the recommendation of the major department, (2) the recommendation of the major adviser, and principally (3) its own judgment of the comprehensive examination and essay or project.

B. A minimum grade of "B" on both the comprehensive examination and the essay or project is required for "Honors." The award of "Honors," "High Honors," or "Highest Honors" shall be determined by the student's examining committee.

C. When a student's work does not, in the opinion of the Committee, meet the minimum requirements for honors, the faculty members supervising the student's Honors work will determine what grade and credit, if any, should be granted.

V. GRADUATE STUDY

Degree of Master of Arts

The requirements for the degree of Master of Arts are as follows.[1]

I. The head of the department in which the student concentrates will plan and approve the student's program.

II. A minimum residence period of one regular session or of four summer sessions of nine weeks each is required.

III. Candidates must demonstrate a reading knowledge of one foreign language.

IV. At least twenty-four semester credits of advanced work, of which at least one-half have been earned in courses numbered above 500, with a quality point average of 2.0 are required for the M.A. degree. No credit will be given for any grade below C.

V. The student becomes a candidate for the Master's Degree upon recommendation of the department and approval of the Graduate Council after completion of a minimum of one semester of graduate work.

VI. The student must present a thesis approved by the head of the department of concentration and by the student's examination committee. He must register for 560, Thesis, Hours to be Arranged, for at least one semester and may

[1]The special requirements for the degree of Master of Arts in Biology, Chemistry, History, Marine Science, Mathematics, Physics, Psychology, and Master of Law and Taxation are described under the appropriate departmental headings.

repeat this registration. This registration does not alter in any way the 24 credits in course work required for the M.A. degree. The thesis must be submitted in final form for acceptance or rejection two weeks before the student expects to receive the degree. The degree will not be granted until three bound copies have been presented by the student to the Dean of Graduate Study.

VII. An examination covering the entire field of study is required. This examination is conducted by the student's examination committee.

VIII. All requirements for the degree must be completed within a maximum period of six calendar years after commencing graduate study as a candidate for the degree.

NOTE: The student's major professor with two or more members of the faculty, appointed by the Dean of Graduate Study in consultation with the head of the department in which the student concentrates, will act as his examination committee.

Degree of Master of Science[1]

With the exception of a thesis, the requirements for the degree of Master of Science are the same as for the Master of Arts. In place of the thesis, a candidate must successfully complete eight additional semester hours of course work.

Degree of Doctor of Philosophy in Physics[2]

The degree of Doctor of Philosophy will be conferred upon candidates who are holders of an approved baccalaureate degree and who have fulfilled the following requirements:

I. The attainment of a reading knowledge of French and German sufficient to enable the student to use these languages for purposes of research. Russian may be substituted for either French or German. This requirement must be met prior to taking the General Comprehensive Examination.

[1]The special requirements for the degree of Master of Science in Physics are described under *Physics*.

[2]Requirements for the degree of Doctor of Philosophy in Marine Science are described under *Marine Science*.

II. The successful completion of not less than three academic years of full-time graduate work, of which at least the last full academic year must be in residence at the College, of the program approved for the candidate by the Department of Physics and the Graduate Council.

III. A satisfactory standing in the General Comprehensive Examination. A student may not begin work on a dissertation until this requirement is satisfied.

IV. The preparation of a dissertation exhibiting independent research in the field of physics, to be submitted in complete form to the Thesis Committee of which the candidates research advisor is chairman. The dissertation must be presented in completed form to the Thesis Committee not later than May 1 of the final academic year of candidacy.

All dissertations must conform to the general thesis requirements of the College and will be published by having a master microfilm made from the original which will be serviced and stored by "University Microfilms" of Ann Arbor, Michigan. Each dissertation must be accompanied by two copies of an abstract of 600 words or less. This abstract will be published in microfilm abstracts for national distribution. A fee of $25 for the above services must be paid by the candidate before the Doctor of Philosophy Degree will be conferred.

V. A satisfactory standing in a final oral examination before the Physics Department faculty and other members of the college faculty and scientific community. No candidate will be admitted to this final examination until his dissertation has been submitted in completed form.

All requirements for the doctorate degree must be completed within seven years from the time of admission to graduate studies.

COURSES OF INSTRUCTION[1]

Ancient Languages

Professor Ryan *(Head of the Department)*. Associate Professor Jones. Assistant Professor Golden.[2] Instructor Floyd. Visiting Instructor Crane.

REQUIREMENTS FOR CONCENTRATION

A candidate for the A.B. degree with concentration in Ancient Languages will be expected to take at least 30 credits in Greek and Latin courses, with the majority of these credits in one of the two languages. If the major emphasis is on Greek, at least 6 credits of Latin should be taken; if the major emphasis is on Latin, at least 18 credits beyond the level of Latin 104 should be taken and at least 6 credits of Greek. Whether the emphasis is on Greek or Latin, six hours credit should be taken in Greek 311—Latin 312 (Ancient History) for concentration. The study of a modern foreign language is advised. Prospective teachers of Latin should take Latin 405 (Educ. 403), should complete the requirements in Education for certification, and should prepare themselves in a second teaching field, preferably English or modern language.

DESCRIPTION OF COURSES

Greek

101, 102. *Elementary Greek.* Continuous course; lectures four hours; four credits each semester. Mr. Ryan, Mr. Floyd, and Mr. Crane.

The elements of the Greek language with translation of stories and poems from selected readers. Parallel study of aspects of

[1]Courses of the *100* series are primarily for freshmen, *200* for sophomores, *300* and *400* for juniors and seniors. Courses for the *500* series are intended for graduates students only. Odd numbered courses are ordinarily offered in the first semester but may be offered in the second semester also; even numbered courses are ordinarily offered in the second semester but may also be offered in the first semester.

A continuous course covers a field of closely related material and may not be entered at the beginning of the second semester without approval of the instructor.

(*) Starred courses may be taken only with the consent of the instructor.

(†) Daggered courses may be taken only with the consent of the Chairman of the department concerned.

[2]Leave of absence 1964-1965.

Greek civilization and of the legacy left by Greek culture and thought to the modern world.

201. *Representative Prose Writers.* First semester; lectures three hours; three credits. Prerequisites: Greek 101, 102 or equivalent. Mr. Ryan and Mr. Floyd.

The reading of selected passages from such writers as Herodotus, Xenophon, Lysias and Plato, together with continued study of forms, syntax, and composition. A review of the history of Greek Literature through reading in translation. The latter part of this course is spent in preparing the student for the reading of Homer.

202. *Homer.* Second semester; lectures three hours; three credits. Prerequisite: Greek 201 or equivalent. Mr. Ryan.

The reading of selected books of the *Iliad* or the *Odyssey.* A study of Homeric civilization, of the literary qualities of the poems, and of their influence upon subsequent literature.

**Greek Literature Cycle.* Each course one semester; lectures three hours; three credits. Mr. Ryan.

The following courses are offered as the needs and wishes of students in the Department in any year may demand. For all of these courses, the completion of Greek 201, 202 or the equivalent is prerequisite. In each course there is a parallel study of some phase of Greek life or thought. Those in the 400 group when supplemented by additional parallel reading may be counted toward the M.A. degree.

301. Philosophy—Plato.

302. New Testament—The Gospels, Acts and Epistles.

403. Historians—Herodotus, Thucydides.

404. Lyric Poetry.

405, 406. The Drama—Aeschylus, Sophocles, Euripides, Aristophanes.

Latin

101, 102. *Elementary Latin.* Continuous course; lectures four hours; four credits each semester. Students who have ac-

quired two high school units in Latin may not take Latin 101, 102 for credit. MR. CRANE.

This course is designed to equip the student with a mastery of the structure of the Latin language, together with an extensive building of vocabulary. There are translations from appropriate texts, including Caesar's *De Bello Gallico,* and parallel study of pertinent aspects of Roman life and history.

103, 104. *Grammar Review, Reading of Prose and Poetry.* Continuous course; lectures three hours; three credits each semester. Prerequisite: at least two units of high school Latin or Latin 101, 102. MR. FLOYD.

A course for students who have had two years of high school Latin or the equivalent, and for more advanced students who wish to refresh their knowledge with a view of applying it to other subjects. In the first semester (103) there is a review of the elements of the language and the reading of passages from selected authors with emphasis upon Cicero. Parallel study of the history and institutions of Republican Rome. In the second semester (104) there is reading of selected books of Vergil's *Aeneid.* Parallel study of the history and institutions of the Empire; the epic and its influence upon subsequent literature.

201, 202. *Literature of the Republic and the Empire.* Continuous course; lecture three hours; three credits each semester. Prerequisite: three or four units of high school Latin or Latin 103-104. MR. JONES.

The reading of selections representative of the works of the important writers in the periods of the Republic and Empire. The first semester (201) emphasizes Roman comedy and prose; the second semester (202), lyric poetry. Parallel study of literary influences on the literature of subsequent ages.

**Latin Literature Cycle.* Each course one semester; lectures three hours; three credits. MR. JONES.

The following courses are offered as the needs and wishes of students in the Department in any year may demand. For all these courses, the completion of Latin 201 and 202 or the equivalent is prerequisite. In each course there is a parallel study of some phase of Roman life or thought. Those in the 400 group

may be counted toward the M.A. degree when supplemented by additional parallel reading.

301. Cicero's and Pliny's *Letters.*

302. Catullus and the Elegiac Poets.

303. Cicero's *Orations.*

304. Horace's *Odes* and Martial's *Epigrams.*

305. Roman Comedy, Plautus and Terence.

307. *Roman Private Life.* Designed specifically for prospective teachers. An intensive investigation of all the major phases of everyday life of the Romans as a preparation for teaching the cultural material of first year high school Latin.

308. *Critical Studies in Caesar.* Designed for prospective teachers of second year high school Latin. The content, style, and aims of the *De Bello Gallico.* Study of Caesar's life and of his time. An examination of Roman methods of warfare.

401. Horace's *Satires* and *Epistles,* with emphasis on *Ars Poetica.*

402. The Latin Historians.

403. Cicero's Philosophical Works.

404. The Latin Epic—Vergil, or Lucretius.

*405. *The Teaching of High School Latin.* Either semester; lectures three hours; three credits. (See Education S305.) Mr. Jones.

A detailed study of the Latin curriculum appropriate for high school instruction; including the philosophy of curriculum construction, organization through "Themes" and "Topics," the correlation of a mastery of the elements of language with an understanding of Roman culture and its legacy to the modern world, the selection of reading and supplementary materials, the use of audio-visual methods, and correlation with other fields of study. Lectures and workshop.

Greek-Latin 451. *Proseminar.* Introduction to the tools of classical scholarships. Study of the history of classical philology,

its methods and aims, and an intensive study of classical bibliography. STAFF.

†500. *Special Topics.* Any semester; three credits for each course. STAFF.

Courses of distinctly graduate character. Open from time to time to such candidates for the M.A. degree as are prepared to carry on individual study and research.

A. Seminar in Greek Literature. Intensive study of individual Greek Authors or genres, varying from year to year in accordance with the students' needs;

B. Seminar in Latin Literature. Intensive study of individual Latin authors or genres, varying from year to year in accordance with the students' needs;

C. Satire and the Novel;

D. Palaeography;

E. Problems of Textural Criticism.

CLASSICAL CIVILIZATION

The following courses are offered as being of general cultural value and valuable contributions to the Humanities program of the College. *A knowledge of Latin and Greek is not required.* Some of these courses may be counted to the extent of six semester credits on a concentration in Latin or Greek, but will not absolve the language requirements for a degree. They are open to *sophomores, juniors,* and *seniors* and, when supplemented by parallel study, may be counted to the extent of three semester credits toward the M.A. degree.

Greek 303. *Greek Civilization and Its Heritage.* First semester; lectures three hours; three credits. MR. RYAN.

An evaluation of the Greek heritage in the modern world, primarily for students who have had neither Greek nor Latin. The mythology and history, the social and economic problems and the literature and art of Greece are discussed and interpreted with

emphasis upon their influence, direct and indirect, on modern civilization and upon their value not only for the better understanding of modern social and economic problems, but also for the fuller appreciation of English literature.

Greek-Latin 306. *Greco-Roman Archaeology and Art.* Lectures three hours; three credits. Mr. Floyd.

The study—by means of illustrated lectures, readings, and reports—of the nature of archaeological research; of the tangible remains of Greek and Roman civilization and art; of the aesthetic principles underlying their production; and of the influence of Greek and Roman art upon the art of subsequent periods.

Greek-Latin 307. *Our Heritage of Greek and Roman Literature.* Lectures three hours; three credits. Mr. Jones.

A survey of chosen masterpieces from the Greek and Roman literatures as a revelation of the thought and culture of Greece and Rome, and of the heritage left by them to the modern world. Lectures and readings in translation. Designed as the first half of a course in foreign literature in translation.

Greek 311, Latin 312. *The Ancient World.* Continuous course; lectures three hours; three credits each semester. Mr. Ryan.

Ancient Civilization from prehistoric times to the downfall of the Roman Empire. The first semester deals with the ancient Orient and Greece, up to 338 B.C.; the second semester deals with Alexander, the Hellenistic World, and Rome. This course is the same as History 301, 302.

Greek-Latin 401. *Greek and Latin Epic.* Careful reading, in English, of Homer's *Iliad* and *Odyssey,* Vergil's *Aeneid,* Lucan's *Pharsalia.* Discussion of the character and structure of the classical epic and its influence on European epic and novel. (Not offered 1964-1965).

Greek-Latin 402. *Greek and Latin Lyric Poetry.* Devoted to the study, in translation, of the major classical lyric poets who have influenced the development of this genre in subsequent literary history. Parallel readings in the theories of lyric poetry and of selected poems showing the influence of classical lyric forms. (Not offered 1964-1965).

Greek-Latin 403. *Classical Tragedy and Its Influences.* Readings, in English, and discussion of the major works of Aeschylus, Sophocles, Euripides, and Seneca. Parallel readings in the theories of tragedy and of representative works, illustrating the influence of Classical Tragedy on subsequent literary history. (Not offered 1964-1965).

Greek-Latin 404. *Ancient Comedy and Its Influences.* A study, in translation, of representative works of Aristophanes, Menander, Plautus, and Terence. Parallel readings in the theories of comedy and of representative works illustrating the influence of Ancient Comedy on subsequent literary history. (Not offered 1964-1965).

HONORS STUDY

495, 496. *Honors.* Continuous course; hours to be arranged; three credits each semester. STAFF.

Students admitted to Honors Study in Ancient Languages will be enrolled in this course during both semesters of their senior year. The course comprises (a) reading and discussion of selected authors in the language of the student's emphasis, Greek or Latin, (b) supervised reading of a special bibliography in the field of the student's major interests, (c) satisfactory completion by May 1, of a scholarly essay, (d) a satisfactory completion of a comprehensive oral examination in the field of Greek and Latin Literature.

Biology

Professors Baldwin, Blank and Byrd *(Head of the Department)*.
Associate Professors Black and Pedigo. Assistant
Professors Brooks, Hall, Mangum, Speese,
Terman, and Welch. Lecturer Hunken.

REQUIREMENTS FOR CONCENTRATION

A minimum of 40 credits is required for concentration in Biology; Biology 101, 102 (10 credits), Biology 301 (4 credits), Biology 401 (4 credits), Biology 405 or 408 (4 credits), and Biology 420 (1-2 credits) must be included. Chemistry 301-302 is required for concentration in Biology. A maximum of 10 credits (which may include Chemistry 301-302) may be approved in other departments for courses above the 100-level to be completed with a minimum grade of "C". It is recommended that all biology concentrators complete Physics 101-102.

DESCRIPTION OF COURSES

101, 102. *Introductory Biology.* Continuous course; lectures three hours, laboratory three hours, discussion one hour; five credits each semester. Mr. Hall and Staff first semester; Mr. Brooks and Staff second semester.

Concepts of modern biology based on molecular and cellular structure; a brief survey of the plant and animal kingdoms relating morphology to physiology; discussions on ecology, organic evolution, and the relation between biological problems and human society.

201. *Comparative Anatomy of Vertebrates.* First semester; lectures three hours, laboratory six hours; four credits. Prerequisite: Bio. 102. Mr. M. Byrd.

Phylogenetic study of the development of the different systems of the higher vertebrates. Dissections and demonstrations by the student.

202. *Embryology of Vertebrates.* Second semester; lectures three hours, laboratory six hours; four credits. Prerequisite: Biology 201 or consent of instructor. Mr. M. Byrd.

Comparative description and analysis of development in representative vertebrate embryos. Lectures and laboratory on spermatogenesis, oogenesis, and normal development of amphibians, birds, and mammals; lectures and laboratory designed to illustrate the general principles governing growth and development.

206. *Plant Taxonomy.* Second semester; lectures two hours, laboratory six hours; four credits. Prerequisite: Biol. 101, 102. Mr. Baldwin.

Phyletic relationship of flowering plants and of ferns; principles of classification; collection and identification of representative native plants.

*208. *Morphology and Phylogeny of Plants.* Second semester; lectures two hours, laboratory six hours; four credits. Prerequisite: Biol. 101, 102. Mr. Baldwin and Miss Speese.

The morphology of representative plants from the various groups is studied in the laboratory and in the field. Some experiments are performed.

210. *Economic Botany.* Second semester; lectures three hours; three credits. Prerequisite: Biol. 101, 102. Mr. Baldwin.

Centers of origin of cultivated plants; the systematic relations, geography, diseases, and economics of various plants, and discussion of their products.

216. *Invertebrate Zoology.* Second semester, lectures three hours, laboratory six hours; four credits. Prerequisite: Biology 101, 102.

The morphology and ecology of representative types of invertebrates are studied in the field and in the laboratory.

301, 302. *Microbiology.* Continuous course; lectures three hours, laboratory six hours; four credits each semester. Prerequisites: Biol. 101, 102, and Chem. 101, 102 for Biol. 301; Biol. 301 for Biol. 302, and organic chemistry recommended. Miss Blank.

The morphology, physiology, taxonomy, ecology, isolation, and culture of viruses, rickettsiae, bacteria, yeasts, lower "molds," and pathogenic protozoa.

307. *Human Physiology.* First semester; lectures two hours; laboratory three hours; three credits. Suggested prerequisite: Biology 101-102.

Detailed study of the manner in which different organ systems of the human body function.

308. *Human Anatomy.* Second semester; lectures two hours, laboratory three hours; three credits.

Gross and histological study of the human organism with particular emphasis on the neuro-muscular systems as related to physical and health education.

313. *Cytology.* First semester; lectures three hours, laboratory three hours; four credits. Prerequisites: Biology 101, 102; Chemistry 301 recommended. Mr. Pedigo.

Lectures and laboratories deal principally with the morphology of the cell and the preparation of materials for cytological study. An introduction to submicroscopic anatomy, chemistry, and the physiology of the cell is given.

314. *Biological Evolution.* Second semester; lectures three hours; three credits. Prerequisites: Biology 101, 102, one other biology course and consent of the instructor. Introductory chemistry and mathematics are recommended. Mr. Brooks.

Principles of biological evolution. Detailed discussion of natural selection, adaptation, population genetics, isolating mechanisms, and speciation.

401. *Genetics.* First semester; lectures three hours, laboratory six hours; four credits. Prerequisites: Biol. 101, 102. Mr. Baldwin and Miss Speese.

Principles of heredity, variation, and evolution, hybridization experiments to demonstrate laws of heredity.

402. *Cytogenetics.* Second semester; lectures two hours, laboratory six hours; four credits. Prerequisite: Biol. 401. Mr. Baldwin and Miss Speese.

Components of cells as related to genetics. Preparation and study of chromosomes.

†403. *Problems in Biology.* All semesters; hours to be arranged; credit according to performance. STAFF.

Supervised projects selected to suit the needs of the individual student.

405. *Cellular Physiology.* First semester; lectures three hours, laboratory six hours; four credits. Prerequisites: Biol. 101, 102; Chem. 301, 302. MR. BLACK.

The relationships between submicroscopic anatomy and chemistry of the cell are explored. Experiments dealing with cell-chemistry, permeability, metabolism, and growth are performed.

406. *Experimental Embryology.* Second semester; lectures three hours, laboratory six hours; four credits. Prerequisites: Biol. 102, 202. MR. BLACK.

Lectures and experiments dealing with the mechanisms of fertilization, cleavage, gastrulation, and organ-differentiation in both invertebrates and vertebrates are given.

407. *General Ecology.* First semester; lectures two hours, laboratory six hours; four credits. Prerequisites: General physiology, plant taxonomy, or permission of the instructor. Recommended: Invertebrate zoology. MR. WELCH.

Survey of major biotic communities; factors controlling the relation of organisms to their environment; structure, metabolism, and control of populations, communities, and ecosystems.

408. *General Physiology.* Second semester; lecture three hours, laboratory four hours; four credits. Prerequisites: introductory biology, general physics, and organic chemistry, or consent of the instructor. Recommended: Comparative Anatomy and Invertebrate Zoology. MR. WELCH.

Basic concepts of physiological function in plants and animals: energy metabolism, transport, nutrition, photoreception, and integration.

*409. *Mammalian Biology.* First semester; lecture two hours, laboratory three hours; three credits. MR. BROOKS.

A course for physicists and engineers, emphasizing mammalian biology. An introduction to basic principles of cellular physiology and gross comparative anatomy. Experience is gained in gross

dissection and microscopy for student familiarization with structural arrangement. (Not open to biology concentrators).

410. *Animal Behavior.* Second semester; lectures three hours; three credits. Prerequisites: Biology 101-102. Recommended: Psychology 201-202. MR. TERMAN.

Description of the known behavior patterns of selected invertebrate and vertebrate groups with emphasis on adaptive significance. The genetics, ontogeny and ecological significance of behavior patterns will be presented where known.

420. *Senior Seminar.* Both semesters, one credit each semester.

Discussions by the faculty and advanced students of contemporary problems in biology. Seniors will be required to prepare and to present papers. Guest lecturers will present occasional seminars.

MASTER OF ARTS DEGREE IN BIOLOGY

Requirements for the Degree of Master of Arts in Biology

The candidate for the degree of Master of Arts in Biology must meet the following requirements in addition to the general requirements stated on pages 93-94.

1. After consultation with the Biology Department, the student may be required to take undergraduate courses in which his preparation is considered inadequate.
2. The student must demonstrate a reading knowledge of either French, German or Russian, in the subject matter of Biology.
3. Each graduate student shall have a major Professor and Graduate Committee who will be responsible for supervising his thesis and for planning his program.
4. Each candidate must complete an oral comprehensive examination covering his thesis, his major subjects, and matters of general nature pertaining to his field of study. This comprehensive examination shall be given only after the thesis has been submitted to and approved by the examining committee and only after the 24 semester credits have been completed, or in the semester in which these credits will be completed.

5. A minimum residence period of one calendar year is required.
6. In addition to Biology 560 (Thesis), the candidate must successfully complete 24 semester hours in courses numbered 400 or above and must include at least one-half in courses numbered 500 or above, with a grade average of B or better. Upon the approval of his graduate committee, a student may take courses at the 400 or 500 level in the Departments of Chemistry, Physics, Mathematics, Psychology and Marine Science. All 400 level courses taken for graduate credit must be completed with a grade of B or better.

GRADUATE COURSES

503. *Comparative Animal Physiology.* First semester; lecture three hours; three credits. Prerequisites: one year of organic chemistry and one course in physiology.

A study of the comparative biochemistry and physiology of life processes common to most major groups of animals. Major topics include nutrition, respiration and energetics, excitation and neural coordination, hormonal coordination, movement, osmoregulation, excretion, reproduction and development.

504. *Physiological Research Techniques.* Second semester; laboratory six hours; two credits. Prerequisites: one year of organic chemistry, one lecture laboratory course in undergraduate physiology, and a graduate lecture course in plant or animal physiology.

Basic instruction is given in laboratory techniques used in physiological research. Techniques covered include measurement of gas exchange, colorimetry and spectro-photometry, radiobiology, electronic measurements of biological potentials, centrifugation, microtechnique, and photomicrography. Students undertake research projects in which physiological techniques, design of experiments, use of equipment, and scientific writing are stressed.

506. *Plant Physiology.* Either semester; lecture two hours, laboratory six hours; four credits. Prerequisites: general physiology and organic chemistry or their equivalents.

Principles of plant function are studied using current experimental techniques. Photosynthesis, respiration, transpiration, soil

and water relations, physiology of growth and development, and related topics are considered.

507. *Principles of Parasitology.* Either semester; lecture two hours; two credits.

A study of the principles of parasitism, including the physiology, ecology, zoogeography, and evolution of parasites. Special emphasis is placed on the literature of parasitology.

508. *Zoogeography.* Either semester; lecture two hours; two credits.

A seminar-lecture course on the geographical distribution, historical associations and migrations of natural populations of animals.

509. *Topics in Genetics.* Lecture two hours; two credits. Prerequisites: A course in microbiology, genetics and physiology or their equivalents.

Current research advances in several areas of genetics are discussed. Major topics include: Chemistry of the hereditary material, structural and chemical concepts of the gene, mechanisms of transfer of genetic material, natural and experimentally induced mutations, fine structure of genes as determined from studies of recombination, nucleo-cytoplasmic relationships in inheritance, and population genetics.

510. *Biosystematics.* Second semester; lectures three hours; three credits. Prerequisite: Genetics.

Study of morphological and other problems fundamental to systems of classification. Emphasis is placed on population studies, experimental and research methods requisite to an understanding of taxonomy.

511. *Ecology of Natural Populations.* Either semester; lecture three hours; three credits. Prerequisites: A course in Ecology and a course in Physiology.

A study of the stochastic and biological properties of intra-specific aggregations.

512. *Concepts of Synecology.* Either semester; lecture three hours; three credits. Prerequisites: A course in Ecology and a course in Physiology.

A survey of historical and modern concepts concerning the identity, structure, integration, and function of natural communities and ecosystems.

513. *Vertebrate Biology.* First semester; lecture two hours, lab six hours; four credits. Prerequisites: Comparative Anatomy and Embryology.

A study of the evolution, classification, ecology, and morphology of the vertebrate animals. The basic principles relating to the distribution, speciation and behavior of vertebrates are also considered. Students are required to undertake a research project.

514. *Topics in Evolution.* Either semester; lecture and discussion, two hours; two credits.

A discussion of the current research in evolutionary biology.

515. *Experimental Plant Ecology.* First semester; lecture two hours, laboratory six hours; four credits. Prerequisites: One course each in Plant Taxonomy, Genetics, and General Ecology or their equivalents.

The experimental approach to vegetation analysis and environmental influence on plant growth and evolution.

516. *Radiation Biology.* Second semester; lecture two hours, laboratory four hours; three credits. Prerequisites: General Chemistry, Physics, and Cytology or their equivalents.

An analysis of the physical aspects of radiation as it affects organisms. Introduction to the use of radioisotopes as a research tool.

517. *Problems in Biology.* Any semester; hours and credits to be arranged.

Individual research studies in the areas of Physiology, Developmental Biology, Ecology, Systematic Botany, Genetics, Vertebrate Biology, Microbiology, and Parasitology.

518. *Seminar.* All semesters; hours to be arranged; one credit; required of all Master's degree candidates in Biology.

Discussions of historical and contemporary problems in Biology.

560. *Thesis.* Hours to be arranged.

Business Administration

Professors Quittmeyer *(Head of the Department)*, Corey, King and Quinn. Associate Professor Reece. Assistant Professor Jones *(Director, Bureau of Business Research)*.

During the first two years the College of William and Mary requires virtually the same program of liberal arts studies for students who plan to concentrate in Business Administration as it does for all other students. The last two years of more specialized work emphasize the field of Business Administration.

The Department of Business Administration cooperates with the Marshall-Wythe School of Law in offering a four-year program in accounting leading to the A.B. degree in Business Administration and a seven-year program with preparation for both Bar and C. P. A. examinations and Master of Law and Taxation.

The Bureau of Business Research, organized in 1958 under the Department of Business Administration, publishes the *Virginia Business Index Report* reflecting current business and economic activity in the State. It similarly publishes the *Williamsburg Business Index Report*. Special research studies are published periodically.

REQUIREMENTS FOR CONCENTRATION

For concentration in Business Administration at least thirty credits are required in courses in Business Administration. Every student is required to take the concentration core program of courses outlined below. Also, every student is required to choose one of the two special concentration programs, which are accounting and management.

CORE CONCENTRATION PROGRAM

	Credits
Principles of Accounting (Bus. 201, 202)	6
Marketing Problems (Bus. 312)	3
Principles and Methods of Statistics (Econ. 331)	3
Financial Management (Bus. 323)	3
Principles of Psychology (Psych. 201) or Contemporary Psychology (Psych. 202)	3
Sociological Theory (Soc. 313) or Human Relations in Administration (Bus. 412)	3
Business Policy (Bus. 416)	3
	24

SPECIAL CONCENTRATION PROGRAMS

ACCOUNTING

Intermediate Accounting (Bus. 301, 302)	6
Cost Accounting (Bus. 303)	4
Advanced Accounting (Bus. 401)	3
Federal Taxation	3
(Additional credits are needed for C. P. A. purposes.)	
	16

MANAGEMENT

Principles of Management (Bus. 327)	3
Production Management (Bus. 330)	3
Industrial Psychology (Psych. 303) or Industrial Relations (Bus. 315)	3
Seminar in Contributions of Liberal Arts to Business (Bus. 428)	3
Quantitative Analysis (Bus. 418) or Principles and Methods of Statistics (Econ. 332)[1]	3
Seminar in Business Research (Bus. 430)	3
	18

RECOMMENDED PROGRAM FOR THE FIRST TWO YEARS

Freshman Year

Grammar, Composition, and Literature (Eng. 101, 102 or 103, 104)	6
Foreign Language	6-8
Mathematics, 6 hours[2]	6
Biology, Chemistry, Geology, or Physics	10
Required Physical Education (Phys. Ed. 101, 102)	2
	30-32

[1]If Econ. 332 is chosen, the student should be sure that least 30, but not over 42, credits with Business numbers are taken in order to meet the basic 124 credit graduation requirement.

[2]These credits are a prerequisite to later courses and also meet distribution requirements.

Sophomore Year	*Credits*
English Literature (Eng. 201, 202) or Introduction to Fine Arts (F.A. 201, 202)	6
Foreign Language	6
Principles of Economics (Econ. 201, 202)[1]	6
History of Europe (Hist. 101, 102) or Introduction to Government and Politics (Govt. 201, 202) or General Sociology (Soc. 201, 202)	6
Principles of Accounting (Bus. 201, 202)	6
Required Physical Education (Phys. Ed. 201, 202)	2
	32

RECOMMENDED PROGRAM FOR THE SECOND TWO YEARS

A. ACCOUNTING PROGRAM

Junior Year	
Intermediate Accounting (Bus. 301, 302)	6
Cost Accounting (Bus. 303)	4
Marketing Problems (Bus. 312)	3
Principles and Methods of Statistics (Econ. 331)	3
Principles of Psychology (Psych. 201) or Contemporary Psychology (Psych. 202)	3
Financial Management (Bus. 323)	3
Nine credits in electives[2]	9
	31

Senior Year	
Sociological Theory (Soc. 313) or Human Relations in Administration (Bus. 412)	3
Advanced Accounting (Bus. 401)	3
Federal Taxation	3
Business Policy (Bus. 416)	3
17-19 credits in electives	17-19
	29-31

[1]These credits are a prerequisite to later courses and also meet distribution requirements.

[2]Public Speaking (Speech 101) is recommended as an elective course.

B. MANAGEMENT PROGRAM

Junior Year

	Credits
Marketing Problems (Bus. 312)	3
Principles and Methods of Statistics (Econ. 331)	3
Financial Management (Bus. 323)	3
Principles of Psychology (Psych. 201) or Contemporary Psychology (Psych. 202)	3
Principles of Management (Bus. 327)	3
Industrial Psychology (Psych. 303) or Industrial Relations (Bus. 315)	3
Production Management (Bus. 330)	3
Principles and Methods of Statistics (Econ. 332) or Quantitative Analysis (Bus. 418)	3
6 credits in electives	6
	30

Senior Year

Sociological Theory (Soc. 313) or Human Relations in Administration (Bus. 412)	3
Business Policy (Bus. 416)	3
Seminar in Contributions of Liberal Arts to Business (Bus. 428)	3
Seminar in Business Research (Bus. 430)	3
18-20 credits in electives[2]	18-20
	30-32

DESCRIPTION OF COURSES

201, 202. *Principles of Accounting.* Continuous course; lectures three hours; three credits each semester. Mr. Jones, Mr. Quinn, and Mr. Reece.

A study of the elementary principles and procedures of individual proprietorship, partnership, and corporation accounting.

301, 302. *Intermediate Accounting.* Continuous course; lectures three hours; three credits each semester. Prerequisites: Bus. 201, 202. Mr. Quinn.

An analysis of balance sheets and profit and loss statements, together with the theory of valuation underlying the various accounts used in these statements.

[1]Public Speaking (Speech 101) is recommended as an elective course.
[2]The student should be sure that at least 30, but not over 42, credits with Business numbers are taken in order to meet the basic 124 credit graduation requirement.

303. *Cost Accounting.* First semester; lectures four hours; four credits. Prerequisites: Bus. 201, 202. Mr. Reece.

The fundamentals of job order, process, and standard cost accounting and cost and profit analyses for decision-making purposes are taught through the use of problems.

304. *Auditing.* Second semester; lectures three hours; three credits. Prerequisites: Bus. 201, 202 and 301, or permission of the instructor. Mr. Quinn.

This course is designed to give the student a working knowledge of auditing procedures through the application of auditing principles. Standards and ethics of the public accounting profession are emphasized as is the preparation of audit reports.

309. *World Resources.* Both semesters; lectures three hours; three credits. Prerequisite: junior or senior standing or permission of the instructor. Mr. Quittmeyer.

This course relates the forces of natural environment to world patterns of production and exchange with consideration of the roles played by selected commodities and other resources in world economic organization.

311. *Fundamentals of Marketing.* First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. Mr. King.

A study of the role of marketing in business and the economy. Emphasis is on the examination of functions, institutions, and policies.

312. *Marketing Problems.* Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. Mr. King.

An examination of marketing problems encountered at all levels of distribution. Cases are used to emphasize analysis and decision-making.

314. *Sales Management.* Second semester; lectures three hours; three credits. Prerequisite: Bus. 311. Staff.

An examination of the management of the sales effort in the business organization. Emphasis is given to sales organization, policies, and control. The case method is used to develop appreciation of sales management functions.

315. *Industrial Relations.* First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202 or permission of the instructor. Mr. King.

A course to provide understanding of the principles, policies, and practices used to develop a sound industrial relations program in the business organization. Among the topics included are job analysis, the employment process, employee development and evaluation, wage and salary administration, labor relations, and union negotiation.

317. *Risk and Insurance.* First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. Mr. Corey.

This course surveys the nature and significance of risk in the modern economic structure and the role of insurance and other means by which it is borne. Probability, risk measurement and legal doctrines are studied in their relation to personal, property and casualty insurance. Although attention is given to the carriers and their operation and regulation, primary stress is given to the user approach.

320. *Advertising.* Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202 or permission of the instructor. Mr. King.

A study of the relationship of demand stimulation to business management. Liberal use of the case method will emphasize the management of advertising compaigns, expenditures, and the integration of advertising efforts as part of the total marketing concept.

323. *Financial Management.* Both semesters; lectures three hours; three credits. Prerequisites: Bus. 201, 202. Mr. Sancetta.

A case discussion course covering current and long-term financing, capital budgeting, dividend policies, and business expansion.

327. *Principles of Management.* First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202 or permission of the instructor. Mr. Jones.

An introduction to the principles of management and their application to business. Emphasis is given to the development of

a philosophy of management in reference to planning, organizing, directing, and controlling.

329. *Management of Small Business.* First semester; lectures three hours; three credits. Mr. King.

A study of the special problems, analysis, and decision-making involved in the management of small business.

330. *Production Management.* Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. Mr. Jones.

A course designed to familiarize the student with the production phase of business activity. Emphasis is on developing ability to use analytical methods of decision-making in the design and operation of production systems.

401. *Advanced Accounting.* First semester; lectures three hours; three credits. Prerequisites: Bus. 201, 202, 301, 302 or permission of the instructor. Mr. Reece.

A study of accounting for partnerships, consignments, installments, receivers' accounts and the use of actuarial science.

402. *Advanced Accounting.* Second semester; lectures three hours; three credits. Prerequisites: Bus. 201, 202, 301, 302 and 401 or permission of the instructor. Mr. Reece.

Consolidated statements, foreign exchange, estate and fund accounting, together with an analysis of a number of problems given on recent C.P.A. examinations, are covered in this course.

407. *Seminar in Accounting.* First semester; three credits. Prerequisites: Bus. 301, 302. Mr. Quinn.

Selected topics based upon controversial issues in accounting theory and practice.

409. *Accounting Systems and Data Processing.* First semester; lectures three hours; three credits. Prerequisites: Bus. 301, 302. Staff.

This course emphasizes the development, organization, design, analysis and improvement of manual and automated business information systems.

412. *Human Relations in Administration.* Both semesters; lectures three hours; three credits. Prerequisites: Econ. 201, 202 or permission of the instructor. Mr. Quittmeyer.

A course employing the case method and supplementary readings to develop managerial skill in recognition and analysis of problems in human interaction, and formulation and communication of plans for action. The course seeks to develop an administrative philosophy in handling human relations problems encountered in management.

416. *Business Policy.* Both semesters; lectures three hours; three credits. Prerequisite: Senior standing in the business administration concentration or permission of the instructor. Mr. Quittmeyer.

A course which deals with the establishment of company-wide objectives and the subordinate plans and controls to accomplish them. This course makes use of the case method to integrate and build upon the business administration core to develop decision-making ability at the policy-making level of administration.

418. *Quantitative Analysis for Business Decisions.* Second semester; lectures three hours; three credits. Prerequisite: six hours of mathematics or permission of the instructor. Staff.

A course which integrates quantitative decision methods and the team approach to research problems of interest to management. Attention is given to probability theory, linear programming, and quantitative models used in the analysis of business problems.

428. *Seminar in Contributions of Liberal Arts to Business.* Both semesters; hours to be arranged; three credits. Prerequisite: Senior standing in the Business Administration concentration or permission of the instructor. Mr. Corey.

Study of the conceptual foundations of business and their origin and development in the literature of the Liberal Arts and Sciences.

430. *Seminar in Business Research.* Both semesters; hours to be arranged; three credits. Prerequisite: Senior standing in the Business Administration concentration or permission of the instructor. Staff.

Independent research culminating in the preparation of a thesis on a topic of business interest.

Chemistry

Professors Guy *(Head of the Department)* and Armstrong.
Associate Professors Harrell,[1] Hill and Zung.
Assistant Professor MacQueen.
Instructor Tarleton.
Stock-Keeper Katz.

REQUIREMENTS FOR CONCENTRATION

The minimum number of semester credits required for concentration in chemistry (except for pre-medical students) is 37 and must include Chemistry (101, 102) or (111, 112); 201, 202; 301, 302; 303. German or French or both are to be taken in satisfaction of the foreign language distribution requirement. A reading knowledge of German is highly desirable. It is strongly urged that Chemistry 201, 202 be taken in the sophomore year.

SPECIAL CONCENTRATION PROGRAMS

I. Professional Training

The Department is listed among those approved by the Committee on Professional Training of the American Chemical Society and those graduates who have met certain minimum standards established by this Committee may be certified to the Society for recognition by them as having received undergraduate professional training in chemistry. To meet these standards this concentration program must include Mathematics 201, 202; Physics 101, 102; and a reading knowledge of scientific German. The required courses in chemistry will be chosen in consultation with the Head of the Department.

II. Preparation for Medicine, Dentistry, and Public Health

The minimum number of semester credits for pre-medical students concentrating in chemistry is 30. This program must include Chemistry (101, 102) or (111, 112); 201, 202; 303. German or French or both are to be taken to satisfy the foreign language distribution requirement.

[1]On leave of absence, 1964-1965.

DESCRIPTION OF COURSES

101, 102. *Elementary General Chemistry.* Continuous course; lectures three hours, laboratory four hours; five credits each semester. Mr. Guy, Mr. Armstrong and Mrs. Tarleton.

An introduction to the study of the common non-metallic and metallic elements with emphasis upon chemical laws and the development and application of chemical principles.

111, 112. *Principles of Chemistry.* Continuous course; lectures three hours, laboratory four hours; five credits each semester. Mr. Zung.

Development of chemical principles, subatomic and kinetic molecular structure of matter, chemical bonding, introductory concepts of thermodynamics and chemical equilibrium. Experiments of a quantitative nature are stressed in the laboratory.

201, 202. *Organic Chemistry.* Continuous course; lectures three hours, laboratory five hours; four credits each semester. Prerequisites: Chem. 102 or 112. Mr. Hill.

Chemistry of the various organic functions. Reactivity is correlated with electronic and three-dimensional aspects of compounds of carbon.

301. *Physical Chemistry I.* First semester; lectures three hours, laboratory four hours; four credits. Prerequisite or corequisite: Chem. 303; prerequisite; Physics 102 and Math 202. Mr. MacQueen.

States of matter, thermodynamics, chemical equilibrium.

302. *Physical Chemistry II.* Second semester; lectures three hours, laboratory four hours; four credits. Prerequisite: Chem. 301. Mr. MacQueen.

Electrochemistry, chemical kinetics, quantum chemistry, and photochemistry.

303. *Quantitative Analysis I.* First semester; lectures two hours, laboratory six hours; four credits. Prerequisite: Chem. 102 or 112. Mr. Armstrong.

Volumetric and gravimetric analysis.



Language Laboratory

Bridge and Conversation in the Student Center Lounge





The 1964 William and Mary Band

Monroe Hall, Men's Residen



304. *Quantitative Analysis II.* Second semester; lectures two hours; laboratory six hours; four credits. Prerequisite: Chem. 303. Mr. Armstrong.

(Students registering for Chem. 302 are advised to elect Chemistry 404 rather than Chemistry 304.)

Colorimetric analysis with an introduction to absorption spectroscopy; standard methods of analysis; separation of mixtures; organic reagents for trace analysis of metals; introduction to electrometric methods of analysis.

305. *Descriptive Inorganic Chemistry.* First semester; lectures three hours; three credits. Prerequisite: Chem. 102 or 112. Staff.

Systematic study of the properties and reactions of chemical elements and their inorganic compounds.

401. *Physical Chemistry III.* First semester; lectures three hours; three credits. Prerequisite: Chem. 302. Mr. MacQueen.

Kinetic theory of gases, chemical statistics, and related topics.

402. *Theoretical Inorganic Chemistry.* Second semester; lectures three hours; three credits. Prerequisite: Chem. 302. Staff.

Principles of physical chemistry and quantum mechanics applied to the study of the structures and reactions of inorganic substances.

404. *Instrumental Methods of Analysis.* Second semester; lectures two hours, laboratory six hours; four credits. Prerequisites: Chem. 302, 303. Mr. Armstrong.

Principles and applications of modern instruments in UV and IR spectroscopy, potentiometry, voltametry, vapor phase chromatography, and radiochemistry.

407. *Qualitative Organic Analysis.* First semester; lecture one hour, laboratory six hours; three credits. Prerequisites: Chem. 201, 202. Mr. Hill.

A study of a systematic method of identification of organic compounds with application of the method to individually assigned samples.

408. *Topics in Organic Chemistry.* Second semester; lectures three hours; three credits. Prerequisites: Chem. 201, 202. Mr. Hill.

Selected areas of organic chemistry will be considered, the choice depending upon the current interests of the instructor and the members of the class. Principles developed in Chemistry 201-202 will be applied.

†409. *Introduction to Chemical Research.* Any semester; hours to be arranged; credits according to the work accomplished. Staff.

A course for the advanced student affording an opportunity for individual work on an assigned problem.

MASTER OF ARTS DEGREE IN CHEMISTRY

Admission and Requirements

In addition to meeting those requirements for admission to graduate study as outlined on p. 93 and for the degree of Master of Arts (pp. 93-94), a candidate for the degree of Master of Arts in Chemistry:

a) shall make a selection of graduate courses under the guidance of a departmental advisor; undergraduate courses may have to be taken or repeated in those areas where adequate preparation appears to be lacking;

b) must attend the Graduate Seminar during each semester in residence;

c) must demonstrate a reading knowledge, in the field of chemistry, in French, German, or Russian at least one semester prior to qualifying for the degree;

d) must acquire at least twelve semester credits (with a minimum of six credits in chemistry) in 500 level courses;

e) must prepare a thesis based upon research carried out under the guidance of a staff member;

f) must pass a comprehensive examination based upon the entire work done for graduate credit and after approval of the thesis by an examining committee.

GRADUATE COURSES

501. *Quantum Chemistry.* First semester; lectures three hours; three credits. Prerequisite: Chem. 401 or equivalent. Mr. Zung.

Postulates of quantum theory; applications of quantum mechanics to the study of atomic and molecular structure.

502. *Advanced Physical Chemistry.* Second semester; lectures three hours; three credits. Prerequisite: Chem. 401 or equivalent. Mr. MacQueen.

Applications of classical and statistical thermodynamics to the problem of chemical equilibrium and reaction rate; some study of the thermodynamics of irreversible processes.

503. *Nuclear Chemistry.* First semester; lectures three hours; three credits. Prerequisite: Chem. 402 or equivalent. Staff.

Nuclear structure, isotopes, nuclear transformations.

504. *Radiation Chemistry.* Second semester; lectures three hours; three credits. Prerequisite: Chem. 503 or equivalent. Staff.

Interactions of radiation with matter; chemical effects of nuclear transformation and applications to chemical problems.

505. *Advanced Analytical Chemistry.* First semester; lectures two hours; laboratory four hours; three credits. Prerequisite: Chem. 404 or equivalent. Mr. Armstrong.

Emission spectroscopy; magnetic resonance spectroscopy; mass spectrometry; activation analysis; other analytical tools.

506. *Atomic and Molecular Spectra.* Second semester; lectures three hours; three credits. Prerequisite: Chem. 501 or equivalent. Mr. Zung.

Theory of atomic spectra. Rotational, vibrational, and electronic spectra of molecules.

507. *Advanced Organic Chemistry.* First semester; lectures three hours; three credits. Prerequisite: Chem. 202; corequisite: Chem. 407. Staff.

The chemistry of natural products (carbohydrates, proteins, alkaloids, terpenes, steroids) with emphasis on developments from the recent literature. Active student participation in class discussion is expected.

508. *Physical Organic Chemistry.* Second semester; lectures three hours; three credits. Prerequisites. Chem. 302, 507. STAFF.

Application of physical theories to organic reactions. Electronic and steric effects of organic molecules as a means of predicting their chemical properties.

510. *Graduate Seminar.* Both semesters; one credit each semester. (A maximum or two credits may be earned in seminar. May not be counted toward the minimum of six credits in 500 courses in chemistry.)

560. *Thesis.* Any semester; hours to be arranged. STAFF.

Economics

Professors Corey, and Sancetta. Associate Professors Matthews and Abdul-Magid. Assistant Professor Garrett. Instructor Barry.

DEPARTMENTAL OBJECTIVES

The instructional program offered by the Department of Economics has two purposes: (1) to provide a basis upon which one can achieve a meaningful and purposeful participation in community affairs, and (2) to provide a foundation upon which professional competence in the field can be achieved. To achieve the first purpose, students should take a minimum of thirty semester hours in the Department, exclusive of Economics 201 and 202, in a sequence approved by the Chairman. For those who contemplate serious study in Economics at the graduate level, they should pursue, in addition to the above, a program which includes a minimum of fifteen hours of Mathematics, selected in consultation with the Chairman.

REQUIREMENTS FOR CONCENTRATION

Concentration in Economics requires a minimum of thirty semester hours, exclusive of Economics 201-202, and the Economics courses must be taken in the sequence indicated in the outline below. The Department considers the instructional offerings in other Departments, identified in the suggested sequence, as helpful in complementing the education experience in Economics.

RECOMMENDED PROGRAM

Freshman Year *Course*	*Credit Hours*
English 101, 102	6
Foreign Language (French or German recommended)	8
Mathematics 103, 104	6
Science (Physics recommended)	10
Physical Education	2
	32

Course	*Credit Hours*
Sophomore Year	
English 201, 202	6
Economics 201, 202	6
Language (French or German recommended)	6
History 201, 202	6
Psychology Elective	3
Sociology Elective	3
Physical Education	2
	32
Junior Year	
Economics 301, 302	6
Economics 303, 304	6
Economics 331, 332	6
American Government	6
Advanced English Electives	6
	30
Senior Year	
Economics 434	3
Electives in Economics	9
Other Approved Electives	18
	30

DESCRIPTION OF COURSES

201, 202. *Principles of Economics.* Continuous course; lectures three hours; three credits each semester. This course is a prerequisite to all courses in Economics except 331. Staff.

An introduction to the tools commonly employed by economists to study problems of value, distribution, production and employment. The theory studied is applied to current problems.

301, 302. *Money and Banking.* Continuous course; lectures three hours; three credits each semester. Prerequisites: Econ. 201, 202. Mr. Matthews.

The first semester is concerned with the institutional framework of the monetary system with emphasis on the evolution of money and monetary systems and the development of commercial and central banking. The second semester is devoted to monetary theory and its application to policy measures. Areas of study will

include the relation of the money supply to the rate of interest and employment, the relationship between monetary and fiscal policies, and international monetary relations.

303, 304. *Intermediate Economic Analysis.* Continuous course; lectures three hours; three credits each semester. Prerequisites: Econ. 201, 202. Mr. Barry, Mr. Garrett.

The first semester is devoted to the advanced analysis of the operation of the market price system in the general areas of value and distribution theory. The second semester is devoted to the advanced analysis of the measurement of national income, employment, the price level, and economic growth.

306. *General Economic History.* Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202.

An examination of the emergence of present-day economic organization through an analysis of the economic background and institutions of the Middle Ages through nineteenth century economic development in Europe. Emphasis is placed on the rise of commerce, industry, and banking; growth of population and the labor force; position of agriculture; business fluctuations.

331, 332. *Principles and Methods of Statistics.* Continuous course; lecture two hours, laboratory two hours; three credits each semester. Prerequisites: Math. 103, 104. Mr. Garrett.

Frequency distribution, measures of central tendency and dispersion, statistical inference, sampling, correlation and regression analysis, and analysis of variance are considered. Some attention is given to quality control. Special emphasis is placed on the use of statistical analysis in decision-making.

401. *Econometrics.* First semester; lectures three hours; three credits. Prerequisites: Econ. 304, 332. Mr. Garrett.

This course is concerned with the application of mathematical and statistical techniques to problems of economics. Basic methods of bringing economic theory and factual research together to provide empirical guidance for policy formation are studied. This study includes mathematical formulations of the economics of resource allocation, pricing and income determination; criteria for

optimal investment choices; examination of determinants of aggregative change and the balance of payments, and an introduction to linear programming.

402. *Regulated Industries.* Second semester; lectures three hours; three credits. Prerequisites: Econ. 302, 303, 304, or permission of the instructor. Mr. Garrett.

An analysis of the nature and development of regulated industries. Interagency competition and the problems and methods of coordination are examined. Special attention is devoted to pricing theory, with particular emphasis on rate making, discrimination, and the effect of rates on the location of industry.

403. *History of Economic Thought.* First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. Mr. Barry.

A survey of economic thought from medieval times to the nineteenth century. An attempt is made to read the great masterpieces of economics within the context of the times in which they were written. Special attention is given to the works of Adam Smith, Ricardo, Malthus and Mill.

404. *History of Economic Analysis.* Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202; 303, 304. Staff.

A study of the development of economic theory. Emphasis is given to the development of marginal analysis, institutional economics, and the writings of John Maynard Keynes.

406. *Comparative Economic Systems.* Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. Staff.

A study of the politico-economic and philosophical aspects of capitalism, socialism, communism and fascism. Special attention is given to the politico-economic issues in the competition between the U. S. A. and the U. S. S. R. for world leadership.

407. *Labor Economics.* First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202.

A study of the development, structure, government, and policies of labor organizations; the major issues in union-management relations and problems of public policy.

415. *International Economics.* First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 302 or 303, or permission of instructor. Mr. Matthews.

This course develops the theory of international trade from the Mercantilists to the modern economists. The objective is to give the student basic knowledge of analytical tools used by economists in the study of international economic problems.

416. *International Trade and Policies.* Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 415 or permission of instructor. Mr. Matthews.

This course analyzes historically problems in tariffs and other protectionist devices, the effect of economic development on the pattern of world trade; problems in balance of payments equilibrium, foreign exchange, and international finance. Particular attention is focused on international economic developments since World War II.

421. *Public Finance.* First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 303, 304, or permission of instructor. Mr. Abdul-Magid.

Analysis of governmental expenditures, revenues and debt systems with emphasis upon their economic effects and their relationships to principles of economic welfare. The course focuses attention on recent proposals of fiscal reforms in the United States in the light of the objectives of economic growth and stability.

422. *Fiscal Policy.* Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 241, or permission of instructor. Mr. Abdul-Magid.

The economic background, rationalization and evolution of fiscal policy is examined. A critical evaluation of the alternative approaches of government finance is presented and special emphasis is given to the instruments, problems and applications of fiscal policy. Also the relationship between monetary and fiscal policy is examined.

425. *Industrial Organization.* First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 303. Mr. Sancetta.

The environmental settings in which business enterprises operate and their behavior as producers, sellers and buyers. Patterns of market structure, types and forms of market conduct and market performance of industries are examined in detail. The relative incidence of competitive and monopolistic tendencies in industry are also analyzed.

426. *Government and Business Enterprise.* Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202. Mr. Sancetta.

A study of the economic and legal aspects of government regulation of private business.

430. *Economic Growth and Development.* First semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 303, 304 or permission of instructor. Mr. Abdul-Magid.

The major theories of economic growth and their relationships to the problems of economic development of the underdeveloped countries today are examined. Special consideration is given to the pressure of population and the policies to pursue to increase the rate of capital formation. Attention is focused on case problems among countries in the Middle East, Southeast Asia, and Latin America.

431. *Business Cycles and Forecasting.* Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202, 303, 304, 331, or permission of instructor. Mr. Abdul-Magid.

Study of the nature, measures and causations of economic fluctuations as experienced by the United States with special emphasis on recent experiences. The course examines modern theories of economic growth and their relationships to business cycles, and the role of forecasting and monetary-fiscal policy in promoting economic stability.

434. *Seminar.* Both semesters; three credits. Required during the senior year of all concentrators in Economics. Staff.

This course attempts (a) to integrate information acquired in previous courses; (b) to develop broader insights into critical issues of public policy; (c) to create a scale of personal priorities

concerned with the possible solutions of these issues; (d) to improve skills in defending orally and in writing points of view once taken; and (e) to acquaint students with the various sources of professional literature in economics. Frequent reports and extensive readings are required.

495, 496. *Honors.* Continuous course; hours to be arranged; three credits each semester. STAFF.

Advanced study on a tutorial basis the first semester. In the second semester each student undertakes independent research on a selected topic and presents an Honors Essay. Each Honors student is responsible for (a) the supervised reading of a selected list of books in economics; (b) satisfactory completion by May 1 of an original essay, or other scholarly project in the field of economics and, (c) satisfactory performance on a comprehensive oral examination. Honors students are *not* required to take Economics 434, *Seminar.* Credits in Economics 495 do not depend on completion of the rest of the Honors program. A student who withdraws from the Honors program at the end of the first semester must take Economics 434 the second semester. A student who completes the Honors Essay but does not achieve Honors may be given credit for Economics 434.

Education

Professors Holland *(Head of the Department and Dean of the School of Education)* and Herrmann. Associate Professors Chesser, Clem, Copeland, Galfo and McCartha. Assistant Professors Ironside and Sykes. Instructor Riley. Lecturers Matier, Williams, Van den Branden and Winder.

REQUIREMENTS FOR CONCENTRATION

Elementary Education

In addition to the courses listed below, the student should include in his program 15 semester credits in English, 3 in U. S. History, 3 in Geography, and 6 in Mathematics. He should also elect, in consultation with an advisor from the Department of Education, intermediate and advanced courses in at least one subject field and preferably two subject fields.

	Semester Credits
Education 301—Human Development and Learning	3
Education E302—Fundamentals of Elementary Education	3
Education E304—Teaching Reading in the Elementary School	3
Education E305—Materials and Methods in Elementary School	3
Education 317—Health Education for Teachers	3
Education E321—Children's Literature	3
Education 325—Fundamentals of Mathematics	3
Education E401A, E 402A—Supervised Teaching—Primary Grades or Education E401B, E402B—Supervised Teaching—Upper Elementary Grades	6
Education 404—Fundations of Education	3
Fine Arts 331—Principles of functional design	3
Music 320—Music for Elementary School Teachers or Music 321—Music in the Elementary School	3

Secondary Education

In addition to the courses listed below, the student should include in his program 12 semester credits in English, 3 in U. S. History and 6 in Mathematics.

	Semester Credits
Education 301—Human Development and Learning	3
Education S302—Fundamentals of Secondary Education	3
Education 317—Health Education for Teachers or Phys. Ed. for Men (321)	3
Education S401-S402—Supervised Teaching	6
Education S403—Methods of Teaching in the Secondary School	3
Education 404—Foundations of Education	3
Education 411—Guidance and Personnel Work in Schools	3
Major Teaching Field—Courses on the intermediate and advanced level	24

GRADUATE STUDY

At the graduate level the Department is organized as a School of Education. Graduate study is offered for those who have completed with merit an undergraduate program at an accredited institution. Programs are designed not only for those who have a Bachelor's degree in Education but for graduates from colleges in liberal arts, engineering, and other colleges. The advanced degree requirements enable students to strengthen their undergraduate preparation, to qualify for positions of Division Superintendent of Schools, Secondary and Elementary School Principalship, Director of Instruction, Supervisor, and Guidance Counselor; and to further preparation in the subject matter of a teaching field.

Admission to the Graduate School of Education

Application:

Application blanks for admission to graduate study in the School of Education should be requested from either the office of the Dean of Admissions of the College or from the office of the Dean of the School of Education.

Definition of Graduate Status:

Graduate students are admitted to *Regular Graduate* status, *Provisional Graduate* status, or as *Unclassified* students. In any case the applicant must have completed the requirements for a Bachelor's degree in an institution of approved standing. Regular and provisional graduate students are permitted to undertake programs of study which lead to an advanced degree. These

students must have achieved a minimum quality point average of 1.5 or its equivalent in undergraduate study and must have satisfactory professional recommendations, including a satisfactory rating as a teacher or educational administrator made by a professional superior.

Provisional Graduate status is permitted some students. This is a probationary status in which the student must maintain satisfactory grades and in which his academic performance must prove that he has the necessary academic background and is able to succeed in graduate study at William and Mary.

Students in the Provisional status must ask the Committee on Graduate Studies to reconsider their application for admission after at least six semester hours of graduate study has been completed. Successful reconsideration provides that Provisional status change to Regular status. Credits earned in the Provisional status may count toward the Master's Degree.

Unclassified students have not been admitted to degree programs. Consequently any credits earned by attending classes may not count toward the Master's Degree. Unclassified students wishing to undertake Master Degree programs must apply for admission after studying courses approved by the Dean of the School of Education.

Undergraduate Background:

The admission requirements for both the Master of Arts and Master of Education degrees in the School of Education include the provision that the applicant should hold the Virginia Collegiate Professional Teaching Certificate or its equivalent. Equivalents are as follows: .

1. The undergraduate program contains a minimum of fifteen (15) semester credits in education, including six semester credits of practice teaching; or

2. The bachelor's degree held is B.S. in Education, and includes one year of practice teaching (two years of successful teaching experience will be accepted in lieu of practice teaching); or

3. Holders of the bachelor's degree, without professional training, upon the completion of two years of successful teaching may be accepted as graduate students *Contingent* upon the passing of certain undergraduate courses in education. Such courses will be determined upon the basis of individual need and are required in addition to and prior to courses on the graduate level.

Graduate Record Examination:

Applicants for admission to regular graduate status are asked to submit to the Dean of the School of Education the scores on the Graduate Record Examination if this has been taken. If the Graduate Record Examination has not been taken, the Graduate Studies Committee of the School of Education may, in some cases, require the scores as part of the date submitted by an applicant.

Degrees Awarded:

The faculty awards the Master of Arts degree which involves an introduction to the methods of research and the writing of a Master's thesis. In addition, the Master of Education degree is awarded. This degree involves an introduction to methods of research and either the writing of an approved Education Project or the substitution of additional coursework on the graduate level in lieu of the Project.

Master's Degree Study in the School of Education

Faculty Advisors:

A student admitted to graduate study in the School of Education is assigned a faculty advisor at the time he is admitted. He plans with this advisor a program of courses which meets the requirements of the degree he seeks. This program must be approved by the Dean of the School of Education and copies of the program are kept by the Dean, the Advisor, and the Student. Any departure from the approved Master's Degree Program must be approved by all parties if such departure is to be included for degree credit in the student's Master's program.

Candidacy for the Master's Degree:

After the student has passed a minimum of twelve semester credits, he is eligible for *Candidacy* for the Master's Degree. He should request his Advisor to arrange for a *Graduate Committee* of two additional faculty members. One member of this Graduate Committee will join the Advisor in reviewing the student's academic record and they will examine all relevent data on hand that relates to the student's academic progress. In some cases the Advisor and Committee Member may require additional data such as: (1) written comprehensive examinations or, (2) the taking of certain standardized tests and/or, (3) the completion of additional courses.

When the Advisor and Committee Member are satisfied with the student's progress in graduate study, they recommend that he become a *Candidate* for the Master's Degree.

Since all Master's degree study requires three basic courses of three semester credits each, it is desired that these nine semester credits will be among the twelve semester credits presented before Candidacy. These basic courses are:

	Semester Credits
Education 504—History and Philosophy of Education	3
Education 501—Research Methods in Education	3
Education 531—Human Growth and Development	3

A student may not become a Candidate for the Master's degree until he has completed Education 501—*Research Methods in Education.*

Final Examination:

An oral examination is required of each candidate. This examination is administered by the Committee referred to above which is chaired by the Candidate's Advisor. The culminating course in most Master's Degree programs is Education 502—*Seminar in Education.* The final oral examination should be taken near the latter part of or at the conclusion of Education 502.

Requirements for Degrees

Degree of Master of Arts

The requirements for the Master of Arts degree are as follows:

I. The Dean of the School will plan and approve the student's program.

II. A minimum residence period of one regular session or of four summer sessions of nine weeks each is required.

III. At least twenty-four semester credits of advanced work, of which at least one-half must have been earned in courses numbered above 500, with a quality point average of 2.0 are required for the M.A. degree. No credit will be given for any grade below C.

IV. The student must present a thesis approved by the student's Examination Committee. He must register for 560, *Thesis,* hours to be arranged, for at least one semester and may repeat this registration. This registration does not alter in any way the twenty-four credits in course work required for the M.A. degree. The thesis must be submitted in final form for acceptance or rejection two weeks before the student expects to receive the degree. The degree will not be granted until three bound copies have been presented by the student to the Dean of the School.

V. An examination covering the entire field by study is required. This examination is conducted by the student's Examination Committee.

VI. All requirements for the degree must be completed within a maximum period of six calendar years after commencing graduate study.

Degree of Master of Education

The program of study leading to the Master of Education degree is planned for students who wish to continue systematic professional study beyond the Bachelor's degree in order to extend their preparation for administrative, supervisory, counseling, and teaching positions. It is designed to provide broad, fundamental, and practical preparation for such positions, and

to develop ability to utilize the contributions of philosophy and research in the solution of educational problems.

The requirements for the degree of Master of Education are as follows: I, II, V, and VI of the requirements for the M.A. degree apply also to the M.Ed. degree. Requirements applicable specifically to the M.Ed. degree are:

I. At least twenty-seven semester credits of advanced work, of which at least one-half must be earned in courses numbered above 500, with a quality point average of 2.0 are required for the M.Ed. degree. No credit will be given for any grade below C. If in the judgment of the Dean of the School of Education they are necessary to the professional training of the student, additional courses may be required.

II. The student may present a report of a professional project approved by the School of Education and by the student's Examination Committee. He must register for Education 530, *Project,* hours to be arranged, for at least one semester and may repeat this registration. This registration does not alter in any way the twenty-seven credits in course work required for the M.Ed. degree. The project report must be submitted in final form for acceptance or rejection two weeks before the student expects to receive the degree. The degree will not be granted until three bound copies have been presented by the student to the Dean of the School.

III. With the approval of the Dean of the School, a student may elect to substitute additional course work for the thesis or professional project report referred to in Section II. Under this option a minimum of thirty semester credits of graduate work, of which at least one-half must be earned in courses numbered 500, and which must include Education 501-502, is required. Graduate credit in excess of the minimum may be required if in the judgment of the adviser it is necessary to the professional training of the student. A comprehensive examination covering the major areas of study is required upon completion of the course work. The general requirements of the M.Ed. degree apply also to this option.

Suggested Graduate Programs

Master of Education: Degree program for the Secondary School Guidance Counselor.

	Semester Credits
I. Basic Courses	
Education 504—History and Philosophy of Education	3
Education 501—Research Methods in Education	3
Education 531—Human Growth and Development (advanced)	3
II. Guidance Courses	
Education 411g—Guidance and Personnel Work in Schools	3
Education 414g—Measurement in Education	3
Education 423g—Individual Appraisal for Guidance Purposes	3
Education 424g—Techniques of Counseling	3
Education 517—The Informational Services in Guidance	3
Education 518—Organization of Guidance Programs	3
III. Culminating Course	
Education 502—Seminar in Education	3
Total	30

Thirty semester credits as specified above is the minimal program leading to the M.Ed. degree with emphasis in Guidance. Normally the program is amplified with courses selected from the following upon the recommendation and approval of the student's graduate adviser.

Cases in which the student has completed certain Guidance or Psychology courses on the undergraduate or unclassified graduate level, he may substitute from the following courses upon the recommendation and approval of his graduate adviser.

	Semester Credits
Education 415g—Evaluation of Instruction	3
Education 505—Curriculum Organization—Secondary School	3
Education 520—Supervised Practive in Counseling	6
Psychology 405g—Abnormal Psychology	3

Master of Education: Degree program in preparation for the Principalship.

	Semester Credits	
	Elementary	*Secondary*
I. Basic Courses		
Education 504—History and Philosophy of Education	3	3
Education 501—Research Methods in Education	3	3
Education 531—Human Growth and Development	3	3
II. Supervision and Curriculum		
Education E405g—Elementary School Curriculum	3	—
Education 505—Secondary School Curriculum	—	3
Education 506—Supervision of Instruction	3	3
Electives from list presented	6	6
III. Administration		
Education 507—Educational Administration	3	3
Education 508—The Organization and Administration of Secondary Schools	—	3
Education 509—The Organization and Administration of Elementary Schools	3	—
Education 502—Seminar in Education	3	3
Total	30	30

Thirty semester credits as specified above is the minimal program leading to the M.Ed. degree in preparation for the Principalship. Normally this program is amplified with courses selected from the following upon the recommendation and approval of the student's graduate adviser.

Cases in which the student has completed certain of the above courses as an unclassified graduate student, he may substitute from the following courses upon the recommendation and approval of his graduate adviser.

	Semester Credits	
	Elementary	*Secondary*
Education 411g—Guidance and Personnel Work in Schools	3	3
Education 414g—Measurement in Education	3	3
Education 415g—Evaluation of Instruction	3	3
Education E416g—Guidance in the Elementary School	3	—
Education 426g—Developmental Reading	3	3
Education 510—School Finance	3	3
Education 526—Problems in the Teaching of Reading	3	3

Master of Education: Degree Program in Supervision (Includes Directors of Instruction)

	Semester Credits
I. Basic Courses	
Education 504—History and Philosophy of Education	3
Education 501—Research Methods in Education	3
Education 531—Human Growth and Development	3
II. Supervision	
Education 505—Secondary School Curriculum (In the case of Elementary supervisors Education E405g, Elementary Curriculum, should be elected)	3
Education 414g—Measurement in Education or Education 415g—Evaluation of Instruction	3
Education 506—Supervision of Instruction	3
Advanced and graduate courses selected in the supervisory field. These courses should be in subject matter for students preparing for supervisory position in specific subject areas	9
III. Culminating Course	
Education 502—Seminar in Education	3
Total	30

The Superintendency

For Those Holding the Masters Degree

1. Individual courses selected to meet the requirements of the Virginia State Board of Education.
2. For the Beginning Graduate Students:

I. Basic Courses	*Semester Credits*
Education 504—History and Philosophy of Education	3
Education 501—Research Methods in Education	3
Education 507—Educational Administration	3

Curriculum, Supervision and Administration	*Semester Credits*
Education 506—Supervision of Instruction	3
*Education 508—Administration of Secondary Schools	3
*Education 509—Administration of Elementary Schools	3
Education 562—Curriculum Development	3
Education 510—School Finance	3
Education 561—School Law	3
Education 563—School and Community Relations	3
Education 564—School Plant	3

(*Students with administrative experience in the principalship may substitute another course for one of these. Education 531, Human Growth and Development should be included in the program planned for students lacking preparation in this area)

III. Culminating Course

Education 502—Seminar in Education	3
Total	36

Master of Education: Degree program in Elementary Teaching.

I. Basic Courses	*Semester Credits*
Education 504—History and Philosophy of Education	3
Education 501—Research Methods in Education	3
Education 531—Human Growth and Development	3

II. Professional and Subject Matter Courses

Education E405g—Elementary School Curriculum	3
Education 414g—Measurement in Education or Education 415g—Evaluation of Instruction	3
Education 426g—Developmental Reading	3
Advanced and graduate courses selected with reference to the needs and interests of the student. It is preferred that these courses be in subject matter areas such as Science, English, Mathematics, the Social Sciences, Fine Arts or Music	9

III. Culminating Course

Education 502—Seminar in Education	3
Total	30

Master of Education: Degree program in Secondary Teaching.

		Semester Credits
I.	Basic Courses	
	Education 504—History and Philosophy of Education	3
	Education 501—Research Methods in Education	3
	Education 531—Human Growth and Development	3
II.	Professional and Subject Matter Courses	
	Education 505—Secondary School Curriculum	3
	Education 414g—Measurement in Education or Education 415g—Evaluation of Instruction	3
	Advanced and graduate courses selected in the teaching field. Appropriate areas are: Biology, Chemistry, Economics, English, Fine Arts, French, German, Government, Greek, History, Latin, Mathematics, Music, Physical Education, Physics, Sociology, or Spanish. It is also possible to combine certain subjects such as the social Sciences and General Sciences	12-or 15
III.	Culminating Course	
	Education 502—Seminar in Education	3
	Total	30 or 33

Master of Arts in Teaching:

The degree of Master of Arts in Teaching (M.A.T.) is designed for the recent college graduate who holds a degree in one of the subject fields taught in the secondary school, and who has not previously prepared himself for a teaching career. It is intended to provide an opportunity for such a graduate to strengthen his preparation in the subject field which he plans to teach and, at the same time, to complete certain professional training needed for certification for classroom teaching in the secondary school. The purpose of the program is to encourage persons with high levels of competency in a subject field to enter secondary school teaching, and to provide the means by which they can be more successful in the classroom.

The course of study for the M.A.T. degree is not intended to duplicate the work of, or compete with, the program for the Master of Education (M.Ed.) degree, which is designed for the further preparation in the field of Education of individuals who already hold degrees in Education and Collegiate Professional Certificates for Teaching, and who wish to prepare for administrative and other such professional positions in the public school

system. The M.A.T. degree also is not intended to duplicate the work for the degree of Master in Teaching of Science (M.T.S.) which is designed to increase the level of competency in a scientific field of established teachers in that field, and which is now related specifically to the National Science Foundation Institute program. The M.A.T. degree also is not intended to duplicate the work for the regular Master of Arts (M.A.) degree.

The program for the M.A.T. degree consists of two parts. The primary part is liberal arts instruction at the graduate level in the subject field. This requirement, therefore, limits the M.A.T. program to students who plan to teach subjects for which graduate study at the College of William and Mary is offered. In principle, this instruction will enable the Faculty of Liberal Arts and Sciences to certify that the candidate is competent in his subject field.

The second part of the M.A.T. curriculum is professional training in Education, the core of which is an integrated program of teaching internship and pedagogy. This professional training in Education is designed to enable the faculty of the School of Education to recommend that the candidate is qualified for a Collegiate Professional Certificate for teaching in the secondary school. Within the framework of these two goals, the program of instruction will be tailored to the educational needs of the individual student.

This is a fifteen-month program consisting of two semesters of course work during the regular academic session, followed by courses in the summer session, and a semester of internship.

I. Admission Requirements

1. The applicant must qualify for regular graduate status.
2. The applicant must be recommended by the Department Head of the subject field involved and approved for regular graduate status.
3. The applicant must have an undergraduate major in the proposed teaching field or sufficient preparation in that field to fulfill the requirements of the M.A.T. degree. This implies an individual program must be planned by the Department Head with concurrence of the applicant prior to recommendation for admission.

4. Applicants may be required to take the Graduate Record Examination (Aptitude and Advanced). Applicants will be notified by the department concerned, if the examination is to be required.

5. Completed applications should be received by May 15.

6. Applicants will be admitted only on approval by the Graduate Studies Committee.

II. Degree Requirements

A. Degree requirements for each student may be varied within the limits described below. Individual programs will be worked out in detail by the respective Department Head and the Dean of the School of Education or their designated representatives.

B. Total credits: 33 semester credits divided between the teaching field and professional development.

1. Teaching Field: 18 semester credits.

2. Professional Development: 15 semester credits with a minimum of six in courses exclusively for graduate students.

3. Students with undergraduate training in Education may increase the credits taken in the Teaching Field by a number equal to that previously taken in Professional Development.

4. At least one-half of the total hours for the degree must be earned in courses exclusively for graduate students.

C. The student will be given an oral comprehensive examination at the conclusion of the course work in the subject field and again at the conclusion of his internship. The candidate may be certified for candidacy for the degree after successful completion of the examination in the subject field. The examining committee representative of the subject field and the School of Education shall be appointed by the Chairman of the Graduate Studies Committee.

D. One semester of full-time teaching internship in a selected High School in accordance with agreements made between the College and the school.

E. An average of *B* in the 33 hours of course work taken with no grade below *C*.

DESCRIPTION OF COURSES

General Courses

301. *Human Development and Learning.* Both semesters; lectures three hours; three credits. Mr. Ironside and Mr. Riley.

Beginning course in both Elementary and Secondary Education. Human growth and development; the psychology of learning.

317. *Health Education for Teacher.* Both semesters; lectures three hours; three credits. Mr. Copeland.

This course deals with various aspects of health with which all teachers are concerned. Topics related to maintenance of health, control of disease, health agencies and the school health program are studied.

325, 326. *Fundamentals of Mathematics.* Continuous course; lectures three hours; three credits each semester. Education 326 may not be included in the 120 semester credits in academic subjects required for the A.B. degree. Mr. Copeland.

An introduction to the concepts, language, and scope of the mathematics now finding its way into the curriculum of the public schools. Designed for two groups: (1) those concerned with mathematics instruction at the elementary and junior high school levels and (2) those planning to teach at the secondary level in areas other than mathematics or science.

Education 325, 326 are content courses of the survey type structured for teachers and approved by the State Department of Education to meet the six semester hour math requirement for teaching in Virginia. Those courses do not meet the college distribution requirement. Education 325 is not a prerequisite for Education 326, but the normal sequence is recommended.

404. *Philosophy of Education.* Both semesters; lectures three hours; three credits. Mr. Holland, Mr. Riley.

This course traces the history and philosophy of education from ancient times to the present. Emphasis is placed upon the several philosophical systems supporting education currently in the United States and foreign countries. Required of all students studying for the Master's degree.

Secondary Education

S302. *Fundamentals of Secondary Education.* Second semester; lectures three hours; three credits. Mr. Galfo, Mr. Ironside and Mr. Riley.

Deals with development and curriculum of the American secondary school and the theory and practice of secondary teaching methods. This course is required of students planning to teach on the secondary level.

S305. *The Teaching of High School Latin.* Either semester; lectures three hours; three credits. Same as Ancient Languages 405.

S401, S402. *Supervised Teaching.* Continuous course; five days a week; three credits each semester. Prerequisites: senior standing, nine semester credits in Education including Education S302; fifteen semester credits in each academic subject to be taught. Endorsement in the subject matter area to be taught is required by the Department Head of the area. Mr. Galfo and Mr. Riley.

S403. *Methods of Teaching in the Secondary School.* Both semesters; lectures three hours; three credits. Prerequisites: Education 301 and Education S302 and fifteen semester credits in the subject of teaching choice. Mr. Clem, Mr. Galfo, Miss Matier, Miss Williams, Mrs. Van den Branden.

The course deals with organizing instruction, selecting and using materials, practicing methods of teaching, and evaluating learning in the several subject fields. It is desirable that this course be taken concurrently with practice teaching.

411. *Guidance and Personnel Work in Schools.* Either semester; lectures three hours; three credits. Mr. Clem.

A study of the fundamental principles of pupil guidance and current practices in school systems. Emphasis is placed on the teacher's responsibilities in a program of guidance. This course is intended for students without previous courses in Guidance and is a prerequisite for all other courses in Guidance.

Elementary Education

E302. *Fundamentals of Elementary Education.* Second semester; lectures three hours; three credits. Mr. Chesser, Mr. McCartha and Mr. Sykes.

The growth of the elementary school in America; the aims of education; the unique function and characteristics of the elementary school; curriculum-making and elementary school organization; school and community relations; and the professional development of elementary school teachers.

E304. *Teaching Reading in the Elementary School.* Both semesters; lectures three hours; three credits. Education 301 and E302 must precede or be taken as parallel courses. Mr. Ironside.

This course deals with the application of principles of learning and child development to the teaching of reading and the related language arts.

E305. *Materials and Methods in the Elementary School.* Both semesters; lectures three hours; three credits. Mr. Sykes.

A continuation of E304 with emphasis upon the areas of social studies, mathematics, science and physical education.

E321. *Children's Literature.* Both semesters; lectures three hours; three credits. Mr. Winder.

Reading and examination of books and other materials suitable for the child of elementary school age. Includes a study of children's reading interests; criteria and aids of selection of materials; practice in evaluating materials; and a brief survey of the history and trends in publishing books for children. This course is required of all students preparing for elementary school teaching.

E401-A, E402A. *Supervised Teaching, Primary Grades.* Continuous course; five days a week; three credits each semester. Prerequisites: Educ. 301, E302 and E304, E305, or parallel courses. Mr. Chesser and Mr. Sykes.

E401-B, E402-B. *Supervised Teaching, Upper Elementary Grades.* Continuous course; five days a week; three credits each semester. Prerequisites: Educ. 301, E302 and Educ. E304, E305, or parallel courses. Mr. Chesser.

Special and Advanced Courses

S400. *Problems of Secondary Education.* Either semester; hours and credits to be arranged.

This course is designed for students who are capable of independent study under the direction and in consultation with staff specialists. Students undertake study and research of educational problems of individual concern resulting from previous study or experience.

402. *Educational Psychology.* Second semester; lectures three hours; three credits.

The application of psychological principles to classroom teaching. Topics include: learning and transfer, child development, methods of measuring individual differences and achievement, and the adjustment of the teacher.

E405. *Elementary School Curriculum.* Either semester; lectures three hours; three credits.

This course deals with recent theories and practices in curriculum development in public elementary schools. Particular attention is devoted to the Virginia courses of study. The course is primarily intended for teachers, principals, and supervisors, but parents and others interested may enroll.

412. *Human Relations in Administration.* Second semester; lectures three hours; three credits. Prerequisites: Econ. 201, 202; or permission of instructor.

This course is designed to familiarize the student with the human relations problems encountered in managing employees,

and to develop in the student an administrative philosophy and knowledge of personal techniques which would enable him to handle these problems.

414. *Measurement in Education.* Either semester; lectures three hours; three credits. Mr. Herrmann.

An introduction to the use of standardized instruments for measuring mental ability, scholastic achievement, special aptitudes and pupil interest. The course deals with test selection, administration and scoring, interpretation and application of test results in teaching and guidance.

415. *Evaluation of Instruction.* First semester; lectures three hours; three credits. Mr. Herrmann.

This course is designed to develop competence in constructing valid and reliable teacher-made tests to measure achievement of the pupils and to use attitude and interest inventories.

419. *Mental Hygiene in the Classroom.* Either semester; lectures three hours; three credits. Mr. McCartha.

Study of the conditions under which wholesome mental and emotional growth takes place, and ways in which the classroom environment can contribute to such growth.

423. *Individual Appraisal for Guidance Purposes.* First semester; lectures three hours; three credits. Mr. Clem.

A study of tools and techniques which may be used by teachers and counselors to improve their understanding of the problems of individual students. Includes interpretation of case data.

424. *Techniques of Counseling.* Second semester; lectures three hours; three credits. Prerequisite: Educ. 423 or equivalent. Mr. Clem, Mr. Herrmann.

An intensive study of techniques used in counseling with students. The course includes a study of techniques of effective interviewing and of techniques of assisting students in gaining insights into their personal problems. Extensive use is made of case data.

426. *Developmental Reading.* Either semester; lectures three hours; three credits. Mr. Ironside.

This course is designed to help teachers understand the psychological components of the reading process and the use of these in the teaching of reading. Topics include elementary school reading and the development of reading skills through the high school, with particular attention being put on study skills. Emphasis is also given to testing and remedial procedures. Projects include case studies, book reviews, teaching materials, and the analysis of data.

S436. *The Improvement of Reading in the Junior and Senior High School.* Either semester; lectures three hours; three credits. Mr. Ironside.

This is intended for teachers in junior and senior high school who desire to improve their competence in the teaching of reading. Includes intensive study of the nature of reading problems among adolescents and young adults, the most effective techniques of improving reading abilities among this group, and appropriate materials to be used in this teaching.

501. *Research Methods in Education.* First semester; lectures three hours; three credits. Mr. Copeland, Mr. Galfo.

A study of the several methods and techniques generally employed in research with especial reference to their application in the solution of education problems. This course includes the study of educational statistics and is required of all graduate students.

502. *Seminar in Education.* Second semester; lectures three hours; three credits. Mr. Galfo, Mr. Ironside, Mr. McCartha.

This course in addition to Educ. 501 is required of all graduate students in Education.

504. *Philosophy and History of Education.* Both semesters lectures three hours; three credits. Prerequisite: consent of the instructor. Mr. Holland, Mr. Riley.

This course is required of all students working toward the Master's degree in Education. A study of the historical and cultural foundations of European educational thought and institutions, and backgrounds of American education. The significance of major philosophical viewpoints for problems of modern education.

Offers the student the opportunity to develop tenable and consistent educational attitudes.

505. *Curriculum Organization—Secondary School.* Either semester; lectures three hours; three credits.

A major course for teachers, principals, and supervisors. The course will deal with the philosophy underlying curriculum organization and with recent theories and practices in public junior and senior high schools for the improvement of the curriculum.

506. *Supervision of Instruction.* Either semester; lectures three hours; three credits. Mr. McCartha.

A major course for supervisors, principals, and administrative assistants in the elementary and secondary school, or for those preparing for these positions. This course will deal especially with the functions of the supervisor in curriculum revision and in the improvement of instruction. It will deal also with the supervisory responsibilities of principals and administrative assistants.

507. *Educational Administration.* First semester; lectures three hours; three credits. Mr. Chesser.

A general course for principals, supervisors and administrative assistants in both elementary and secondary schools. This course and either Education 508 or 509 are required of all students seeking State Certification for Principalship. This course is also required in programs of students studying for the Superintendency.

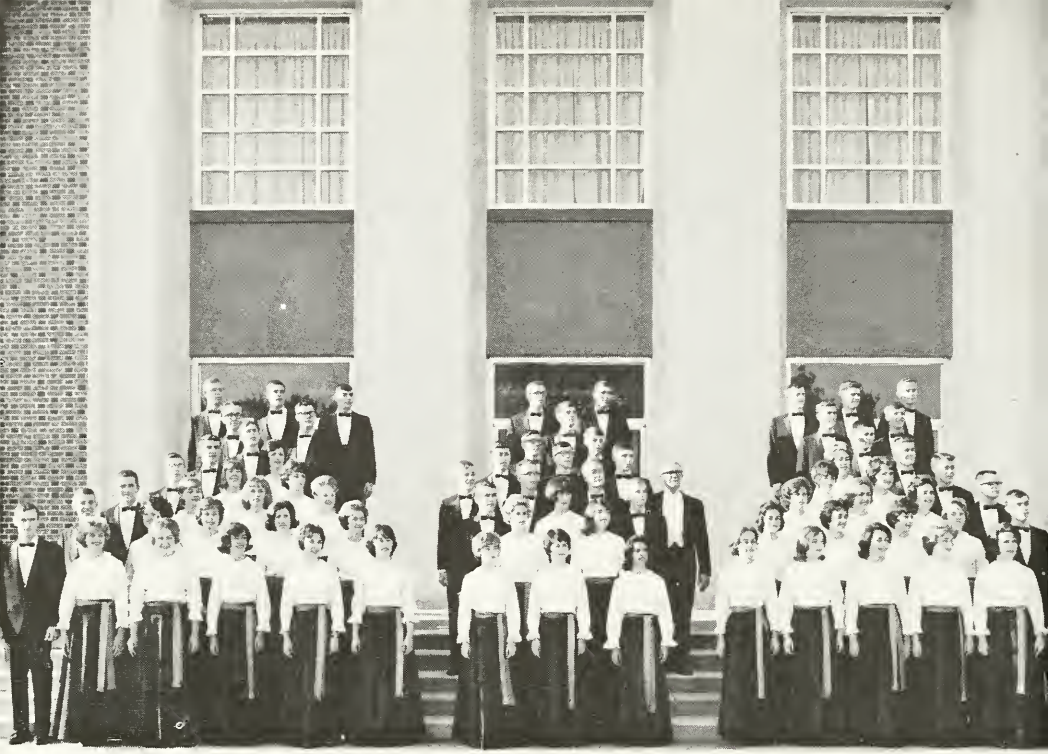
508. *The Organization and Administration of Secondary Schools.* Second semester; lectures three hours; three credits. Mr. Chesser.

A major course for teachers, principals, and administrative assistants in the secondary school. This course deals especially with the duties of the principal as an administrator. Prerequisite: Education 507 or permission of the instructor.

509. *The Organization and Administration of Elementary Schools.* First semester; lectures three hours; three credits. Mr. McCartha, Mr. Sykes.

Aerial View of the Campus

Homecoming, 1964; William and Mary 10, The Citadel 0



The William and Mary Choir, 1964

Phi Beta Kappa Hall



A major course for teachers, principals, supervisors, and administrative assistants in the elementary school. This course deals especially with the duties of the principal as an administrator. Prerequisite: Education 507 or permission of the instructor.

510. *School Finance.* Lectures three hours; three credits. Mr. Chesser, Mr. McCartha.

Required major course in advanced work for students preparing to be school superintendents. Problems in organization and finance of state, county, and city school systems will be considered.

517. *The Informational Services in Guidance Programs.* Either semester; lectures three hours; three credits. Mr. Clem.

A study of the occupational structure of our society, of factors influencing vocational choice, and of techniques for providing educational and occupational information to students. Both individual and group activities will be stressed.

518. *Organization of Guidance Programs.* Second semester; lectures three hours; three credits. Prerequisite: Educ. 411, or equivalent. Mr. Clem.

A study of the procedures involved in organizing and developing guidance programs in schools.

520. *Supervised Practice in Counseling.* Either semester; three to six credits.

This course is designed to give advanced graduate students opportunity to put into practice the various theoretical aspects of counseling and guidance which they have learned in previous courses. Students are instructed in the major areas of counseling theory; they are supervised while giving intensive individual counseling to high school students; finally they are aided in assessing the practice.

523. *Counseling: The Psychological and Sociological Processes.* Prerequisite: approval of the instructor. Either semester; three to six credits.

This course is designed to give qualified counselors broader backgrounds and deeper understandings of the psychological, sociological, and anthropological factors which underly effective

counseling. Two major purposes of the course are to identify factors which inhibit full learning; and develop counselor competency assisting counselees to overcome such inhibitions.

526. *Problems in Reading.* Second semester; lectures three hours; three credits. Prerequisite: Education 426 or permission of the instructor. Mr. Ironside.

Basic problems in reading instruction at varying class levels; diagnosis and evaluation of difficulties of problem readers. Topics include the grade-level concept, variations from the norm, case study analyses, choices in teaching methods, learner disabilities, remedial techniques and purposes, formal and informal diagnosis, evaluation of progress, materials in instruction, and relevant research.

530. *Project.* Hours to be arranged. Mr. Holland.

531. *Human Growth and Development.* Both semester; lectures three hours; three credits. Prerequisite: Education 301 or equivalent. Mr. Ironside.

A comprehensive study of recent literature dealing with human development and with educational psychology with consideration of implications of these for educational practice. This course is required of all students studying for the Master's degree.

560. *Thesis.* Hours to be arranged. Mr. Holland.

561. *School Law.* Either semester; lectures three hours; three credits.

School Law and legal problems for school administrators. Required for students intending to qualify for the superintendency. The legal foundations of public (and private) education in the United States and a thorough study of the Virginia School Code (including regulations of the Virginia State Board of Education). Consideration is also given to the legal foundations of educational administration from the national, state and local points of view.

562. *Curriculum Development.* Either semester; lectures three hours; three credits.

This course includes a thorough study of the foundations, procedures, and theory of curriculum development as well as content of both the elementary and secondary school curricula.

563. *School and Community Relations.* Either semester; lectures three hours; three credits.

This course will be devoted to the study of the administrator's role in community leadership, embracing the relationship (historical and professional) of public schools and community influences. Consideration should be given to the use of community surveys, as well as understanding the implications of economic, religious, political and various social factors for educational planning.

564. *School Plant.* Either semester; lectures three hours; three credits.

A study of the curricular, psychological, physiological and technical factors influencing the design and construction of the school plant. This course includes a study of trends in school plant design as well as basic principles of plant operation.

TEACHER SCHOLARSHIPS, LOANS AND STUDENT EMPLOYMENT

Virginia Teacher's Scholarship

The General Assembly of Virginia has made an appropriation for Teacher Training Scholarships available to freshmen, sophomores, juniors and seniors who are residents of the State and who plan to teach in the Virginia Public Schools. These scholarships are for $350.00 per academic year and for proportionate amounts during the Summer Session. Inquiries should be addressed to the Dean of the School.

Kappa Delta Pi Scholarship

The Alpha Xi Chapter of Kappa Delta Pi, national honor fraternity for teachers and students in Education annually offers a $100.00 scholarship to the student displaying combined scholarship and outstanding professional qualities. Inquiries should be directed to the Dean of the School.

National Defense Student Loans

Under the National Defense Education Act of 1958, Congress authorized substantial funds for the establishment of low interest, long-term student loans in institutions of higher learning. Any full-time student or prospective student may apply for a loan under this Act. The applicant must be in good standing in his course of study, and he must be able to demonstrate need for financial assistance.

Employment, Loans and Other Scholarships

Opportunities for student employment, loan programs and other undergraduate scholarships are described under *Loans* and *Employment*.

GRADUATE ASSISTANTSHIPS

Assistantships in the amount of $1,500.00 and tuition each academic year are available to regular graduate students who are enrolled for full-time graduate study. Applications should be directed to the Dean of the School of Education.

TEACHER PLACEMENT

The School maintains a Bureau of Recommendations to assist its graduates who plan to teach or who are seeking changes in employment. No registration fee is charged, and all students enrolled in the School are strongly urged to avail themselves of this service. If the students file complete records and cooperate with the Bureau, the faculty can be of assistance to those who go into teaching, not only at graduation but also at later times.

STUDENT HONORS AND ACTIVITIES

Kappa Delta Pi

This honor society in Education was first organized in 1911 and Alpha Xi Chapter of the College of William and Mary was chartered in 1922. The purpose of Kappa Delta Pi "shall be to encourage high professional, intellectual, and personal standards and to recognize outstanding contributions to education. To this end it shall invite to membership such persons as exhibit commendable personal qualities, worthy educational ideals, and sound

scholarship. It shall endeavor to maintain a high degree of professional fellowship among its members and to quicken professional growth by honoring achievement in educational work." Both men and women are eligible for membership.

Student Education Association

The student organization which complements the National Education Association and the Virginia Education Association has been active in furthering professional competence and providing members with introductions to the National and State professional organizations. All prospective teachers enrolled in Education classes are eligible for membership.

English Language and Literature

Professors Neiman *(Head of the Department)*, Davidson, Evans, Jones, and McCulley. Associate Professors Dolmetsch,[1] Jenkins, Sampson, and Smith. Assistant Professors Davis, Godshalk, and Willis. Instructors Ball, Benton, Cacciapaglia, Elliott, French, Heemann, Heissenbuttel, Hubert, Kendall, Kessler, Kindred, Maccubbin, Nickerson, Sparling, and Stuart.

REQUIREMENTS FOR CONCENTRATION

A concentration in English requires 30 credits in courses beyond the distribution requirements in literature. These distribution requirements must be satisfied by English 101-102 or 103-104 and English 201-202 or Humanities 201-202.[2] English 209 is normally required for concentration.[3] At least 18 of the 30 required credits must be selected from courses numbered 350 or above. Candidates for Honors must elect English 495-496.

DESCRIPTION OF COURSES

101, 102. *Composition and Literature.* Continuous course; lectures three hours; three credits each semester. Staff.

English 101, 102 is designed for the student who has had adequate but not exceptional training in grammar, composition, and literature. The course includes comment on individual problems of grammar and usage; a review of central principles of rhetoric and style; the writing of a number of short and at least two longer papers related to the reading; thoughtful analysis and criticism of selected essays and larger works; and close study of the literary types of fiction, drama, and poetry.

103, 104. *Composition and Literature.* Continuous course; lectures three hours; three credits each semester. Staff.

[1]On leave of absence, 1964-1965.

[2]Students will normally complete the distribution requirements before beginning any 300 courses in English.

[3]Upon the recommendation of their instructor in English 101-102 or 103-104, students may be exempted from English 209 as a part of the concentration requirement if they choose not to elect this course.

English 103, 104 is designed for the student of unusual proficiency. In general the course covers approximately the same range as English 101, 102. Imaginative works are studied with greater intensity, however. There is less class review of the principles of writing and more emphasis in the papers upon the development of critical skill. Students are assigned by the Department of English to English 103, 104 on the basis of the records submitted to the Dean of Admissions.

201, 202. *English Literature.* Continuous course; lectures three hours; three credits each semester. STAFF.

A survey of English literature, with collateral readings, discussions and reports.

*209. *Composition.* Both semesters; lectures three hours; three credits. STAFF.

This course provides intensive practice in writing different kinds of papers under criticism. Expository writing is stressed, but there is opportunity for creative writing. Because of limited enrollment and frequent individual conferences, students obtain the individual attention necessary to develop their writing abilities.

303. *Epic and Romance.* First semester; lectures three hours; three credits. MR. NEIMAN.

A study of two major literary forms, with especial reference to *The Aeneid, The Divine Comedy,* and *Don Quixote.*

305. *The Bible.* First semester; lectures three hours; three credits. MR. SMITH.

A study of selected portions of the Old and New Testaments.

311. *English Grammar, Historical and Descriptive.* First semester; lectures three hours; credit three hours. MR. KINDRED and MR. SAMPSON.

A general survey of the development of English grammar and language with particular emphasis on modern grammar and syntax.

*329, 330. *Advanced Writing.* Continuous course; lectures three hours; three credits each semester. MR. JENKINS.

The course is intended for the student who has demonstrated some talent for writing. He is encouraged to develop his individual interests and creative capacities. Extensive practice in the several types of writing. The course is conducted as a seminar; manuscripts are read and criticized informally by members of the class.

351. *Medieval Literature.* First semester; lectures three hours; three credits. Mr. Davidson.

A survey of Old and Middle English literature exclusive of Chaucer.

353. *Shakespeare.* First semester; lectures three hours; three credits. Mr. Godshalk.

An intensive study of selected histories and comedies.

354. *Shakespeare.* Second semester; lectures three hours; three credits. Mr. Godshalk.

An intensive study of the major tragedies and the "problem" comedies.

355. *The English Renaissance.* First semester; lectures three hours; three credits. Mr. Evans.

A survey of English literature, excluding the drama, in the sixteenth century, with emphasis on the works of such contemporaries of Shakespeare as Raleigh, Marlowe, Sidney, and Spenser.

356. *The Seventeenth Century.* Second semester; lectures three hours; three credits. Mr. Evans.

A survey of the poetry and prose of the first half of the seventeenth century, with emphasis on the work of Ben Jonson, Herrick, Donne and the Metaphysical poets, and Sir Thomas Browne.

357. *English Literature, 1660-1744.* First semester; lectures three hours; three credits. Mr. McCulley.

Close study and discussion of literary masterpieces from the Restoration to the death of Pope, with particular emphasis on the writings of Dryden, Bunyan, Addison, Pope, Swift and Defoe.

358. *English Literature, 1744-1798.* Second semester; lectures three hours; three credits. Mr. McCulley.

Close study and discussion of literary masterpieces from the death of Pope to the publication of the *Lyrical Ballads,* with emphasis on the writings of Goldsmith, Johnson, Blake, Gray and Burns.

359. *The Romantic Period, 1798-1832.* First semester; lectures three hours; three credits. Mr. Neiman.

A study of the dominant ideas and conventions of English romanticism as expressed through major poets and critics of the period: Wordsworth, Byron, Shelley, Keats, Hazlitt.

360. *The Victorian Age.* Second semester; lectures three hours; three credits. Mr. Neiman.

A study of the intellectual crises of the age as expressed primarily by leading poets and essayists from Carlyle to Hardy.

363. *Modern Poetry.* First semester; lectures three hours; three credits. Mr. Jenkins.

A study of Modern English and American poetry and its development, with reading, interpretation and discussion of the verse of Yeats, Pound, Eliot, Auden, Stevens, Thomas and others.

*364. *Modern Fiction.* Second semester; lectures three hours; three credits. Mr. Jenkins.

Reading, analysis and discussion of the principal American and British fiction writers from 1890 to the present, chosen to illustrate contemporary tendencies in matter and technique.

366. *Survey of the American Short Story.* Second semester; lectures three hours; three credits. Mr. McCulley.

A study of the historical development of the short story as a distinctively American form of literature. Especial emphasis on local color, representative American characters, and standards of critical judgment.

371. *American Literature, 1607-1860.* First semester; lectures three hours; three credits. Mr. Davis and Mr. Sampson.

A survey course covering the period from 1607 to 1860, and emphasizing not only the chief writers and their works but also the cultural trends and principles that have been basic in American life and thought.

372. *American Literature, 1860 to the Present Time.* Second semester; lectures three hours; three credits. Mr. Davis and Mr. Sparling.

A survey course covering American writing since 1860 and the factors contributing to its development.

373. *The English Drama to 1642.* First semester; lectures three hours; three credits. Mr. McCulley.

A study of drama in England from its origins to the closing of the theaters in 1642, with emphasis on the works of Christopher Marlowe, Ben Jonson and John Webster.

374. *English Drama, 1660 to the Present.* Second semester; lectures three hours; three credits. Mr. McCulley.

A study of English drama from 1660 to the present, with emphasis on the modern period; related Continental plays, particularly those of Ibsen, will be studied. Main currents of English dramatic development and critical analysis of texts will be stressed.

375. *The English Novel to 1832.* First semester; lectures three hours; three credits. Mr. Smith.

A survey of the development of English prose fiction from its beginnings in the Elizabethan period through the novels of Scott.

376. *The English Novel Since 1832.* Second semester; lectures three hours; three credits. Mr. Smith.

A survey of the English novel from Dickens to the early twentieth century.

402. *Chaucer.* Second semester; lectures three hours; three credits. Mr. Davidson.

A study of Chaucer's *Canterbury Tales* and *Troilus and Creseyde.*

405. *Milton.* First semester; lectures three hours; three credits. Mr. Jones.

An intensive study of Milton's poetry and prose, with emphasis on *Paradise Lost* and *Samson Agonistes.*

407. *Hawthorne, Melville and Faulkner.* First semester; lectures three hours; three credits. Mr. Davis.

An intensive study of the major novels of these three writers.

408. *Literary Criticism.* Second semester; lectures three hours; three credits. Mr. Evans.

Through a study of major literary critics, this course seeks to formulate a comprehensive and reasoned view of the nature, function and value of literature.

409. *Emerson, Thoreau and Whitman.* Second semester; lectures three hours; three credits. Mr. Sampson.

An intensive study of the major works of these leading American Transcendentalist authors.

411. *The English Language.* Both semesters; lectures three hours; three credits. Mr. Sampson and Mr. Ball.

An examination of the history of the English language from Anglo-Saxon to the present. Some attention is given to American English and English linguistics.

†450. *Individual Reading.* Either semester; conference and reports; credits according to work done. Staff.

HONORS STUDY

495, 496. *Honors.* Continuous course; hours to be arranged; three credits each semester. Staff.

Students admitted to Honors Study in English will be enrolled in this course during both semesters of their senior year. The course comprises (a) supervised reading in the field of the student's major interest; (b) the preparation and presentation by May 1 of an Honors Essay based on the student's own research; and (c) satisfactory completion of a comprehensive examination in the field of the student's major interest.

Fine Arts

Associate Professors Thorne *(Head of the Department)*, Newman and Roseberg. Instructor Coleman. Lecturer Phillips.

REQUIREMENTS FOR CONCENTRATION

Students concentrating in Fine Arts must take Fine Arts 201, 202, and 401, 402, and a minimum of 24 additional credits in the Department. A maximum of 21 technical and a total of 42 credits is allowed in a subject field or department.

SPECIAL PROGRAMS OF STUDY

I. History of Art: Fine Arts 304, 305, 404, 405, 406, 407; one other course in Fine Arts should be included.

Note: Students who contemplate graduate work in the History of Art or the History of Architecture should have upon graduation a reading knowledge of either German or French. It is further urged that they plan to take advanced courses in either History or English Literature.

II. Architecture: Fine Arts 211, 212, 213, 214, 313, 314, 405.

Note: Students who contemplate professional work in Architecture should take Physics 101-102, Engineering Graphics 201-202, and one year of the Calculus.

III. Sculpture: Fine Arts 211, 212, 215, 216, 304, 317, 318, 404, 407.

IV. Painting: Fine Arts 211, 212, 306, 315, 316, 404, 406, 410, or 415, 416.

V. Teaching of Art: Fine Arts 211, 212, 213, 215, 315, 331, 421, 422.

DESCRIPTION OF COURSES

201, 202. *Introduction to the Arts.* Continuous course; lectures three hours; three credits each semester. Staff.

The development of architecture, sculpture, and painting from the earliest times to the present day. Open to freshmen with the permission of the Chairman.

211, 212. *Elementary Drawing.* Continuous course; studio six hours; three credits each semester. Mr. Coleman.

Creative experience in various media, with emphasis on the visual elements of design. A basic course for practical work in architecture, sculpture, painting and theatrical design.

213, 214. *Introduction to Architecture.* Continuous course; studio six hours; three credits each semester. Mr. Phillips.

The first semester is a survey of architectural development with particular attention to American and Contemporary examples. The second semester is a study of spaces for living including contemporary concepts of design, spatial organization materials, furnishing and gardens in relation to all major types of residential architecture.

*215, 216. *Elementary Sculpture.* Continuous course; studio six hours; three credits each semester. Mr. Roseberg.

A practical course in the use of the sculptor's tools and materials which will include work in ceramics.

304. *Art in the Ancient World.* Second semester; lectures three hours; three credits. Mr. Roseberg. (Alternates with Fine Arts 410.)

305, 306. *Colonial American Art.* Continuous course; lectures three hours; three credits each semester. Mr. Newman, Mr. Thorne. (Alternates with Fine Arts 405-406.)

307, 308. *Art in the Modern World.* Continuous course; lectures three hours; three credits each semester. Mr. Thorne, Mr. Roseberg, Mr. Newman.

Architecture, painting, and sculpture in the nineteenth and twentieth centuries. This course is designed for juniors and seniors with no special knowledge of Fine Arts who wish some knowledge and appreciation of Modern Art.

*313, 314. *Architectural Design.* Continuous course, studio six hours; three credits each semester. Mr. Phillips.

A course in architectural design, including the design of single buildings, the problem of building groups and community relationships.

*315, 316. *Painting.* Continuous course; studio six hours; three credits each semester. Mr. Thorne.

An introductory course in the various media of painting; painting in oil, tempera and emulsion.

*317, 318. *Advanced Sculpture.* Continuous course; studio six hours; three credits each semester. Mr. Roseberg.

Compositions in relief and in the round, development of original designs from preliminary sketch to completed work in wood, plaster, stone, and ceramics.

331. *Principles of Functional Design.* Both semesters; lecture one hour; studio six hours; three credits each semester. Mr. Thorne.

An introductory course in the design of ceramics, prints, plastics, painting, crayon work and other crafts.

*401, 402. *Art and Twentieth Century.* Continuous course; lecture one hour; two hours seminar; three credits each semester. Mr. Newman, Mr. Coleman.

Lectures, discussion, and research concerning the major problems and potentialities of the arts in the contemporary world. A special field, Architecture, Painting, or Sculpture, will be selected for concentrated seminar work in relation to the general art problems considered in the lectures.

404. *Medieval Art.* Second semester; lectures three hours; three credits. Mr. Newman.

History of the architecture, painting, and sculpture of the Middle Ages.

405, 406. *Renaissance Art.* Continuous course; lectures three hours; three credits each semester. Mr. Newman, Mr. Thorne.

The Architecture of the Renaissance in the first semester. Painting of the Renaissance in the second semester. (Alternates with Fine Arts 305, 306. Not offered 1965-1966.)

407. *Renaissance Sculpture.* First semester; lectures three hours; three credits. Mr. Roseberg. (Alternates with Fine Arts 409.)

409, 419. *Oriental Art.* Continuous course; lecture three hours; three credits each semester. Mr. Roseberg.

History of the architecture, painting, and sculpture of the Orient. (Alternates with Fine Arts 304, 407. Not offered 1965-1966.)

†411. *Problems in Fine Arts.* Any semester; hours to be arranged; credits according to work done. Staff.

This course is for the advanced student and is arranged on an individual basis.

*415, 416. *Advanced Painting.* Continuous course; studio six hours; three credits each semester. Mr. Thorne.

Compositions in various media to be planned for exhibition. The development of original designs from the sketch to completed work in oil, tempera, encaustic and etching.

*421. *Ceramics.* First semester; studio six hours; three credits. Mr. Coleman.

A study of the procedures in ceramic art. The use of the wheel and making of glazes. Ceramic sculpture in relief and in the round. A part of the course to include enameling on metal.

*422. *Graphic Arts.* Second semester; studio six hours; three credits. Mr. Coleman.

A course in the many ways of print making. The wood-cut, lino-block, etching, lithograph and serigraph will be studied.

All work produced by the students of the studio classes remains the property of the College of William and Mary until released by the appropriate faculty member in charge. The College will not be responsible for theft or damage to such works.

Geology

Associate Professor Bick *(Head of the Department)*.
Assistant Professors Goodwin and Clement.
Assistant Instructor Mills.

REQUIREMENTS FOR CONCENTRATION

A concentration in geology requires successful completion of *one* of the following programs:

1. For those students desiring an A.B. degree with a concentration in geology as preparation for law, business, government, or other nonprofessional vocation:

Geology 101, 102, 205, 206, 301, 302, 312, 401, 402, 407 (Geology 201, 202, and 408 may be substituted for Geology 205, 206, and 312 at the discretion of the student) (34 credits)

Biology 101, 102 or Chemistry 101, 102 (or Chemistry 111), or Physics 101, 102.

Up to 8 credits of geology may be selected as electives, but it is recommended that the student concentrate electives in one or two fields and thus equip himself with a strong background in a subject(s) other than geology.

2. For those students desiring a B.S. degree who intend to continue geological studies in graduate school or who plan to engage in professional geological work upon completion of their study at William and Mary:

Geology 101, 102, 201, 202, 301, 302, 407, 408, 411, 412
Mathematics through Mathematics 203
Physics 101, 102.

Attention is called to the following courses. In order that the student may be adequately prepared in geology and that the department will be able to give an unqualified recommendation upon graduation, these courses cannot be too strongly urged upon the student.

Chemistry 101, 102 and Biology 101, 102

Chemistry 202 and 401 for those oriented to the physical side of geology

Biology 216 and 407 for those oriented to the biological side of geology.

DESCRIPTION OF COURSES

101, 102. *Introductory Physical and Historical Geology.* Continuous course; lectures three hours; laboratory four hours; five credits each semester. Mr. Goodwin and Mr. Bick.

The basic principles of the science of Geology. The first semester is a study of the physical aspects of the earth; its composition, structure, and the processes and agencies that modify it, including weathering, streams, subsurface water, glaciers, wind, oceans, and volcanoes. The second semester is an historical study of the earth; its origin, its changing face through time, and the forms of life that have inhabited it.

111, 112. *Earth Science.* Continuous course; lectures three hours, laboratory two hours; four credits each semester. Mr. Bick and Mr. Goodwin.

Selected subjects in earth science. Recommended for science teachers and elementary teachers. Topics are drawn from the disciplines of geology, astronomy, oceanography, and meteorology. The course treats these fields in a manner that emphasizes their basic unity and stresses the close relationship with the underlying sciences of physics and chemistry. An elective course with no credit in geology without further work in geology. *Not open to students who have taken Geology 101-102.*

201. *Stratigraphy and Sedimentation.* First semester; lectures three hours; three credits. Mr. Bick.

The basic principles governing deposition of sediments and description and interpretation of sedimentary rocks. Two weekends are devoted to field trips.

202. *Structural Geology.* Second semester; lectures three hours; three credits. Mr. Goodwin.

The study of the forces that affect rocks of the earth's crust and the deformation caused by these forces. Two weekends are devoted to field trips.

205. *Stratigraphy—Structure.* First semester; lectures three hours; three credits. Mr. Goodwin.

The origin and interpretation of sedimentary rocks combined with a study of the forces that deform rocks of the earth's crust. No credit for the B.S. concentrator in geology. *Not open to students who have taken either Geology 201 or Geology 202.*

206. *Economic Geology—Fuels.* Second semester; lectures three hours; three credits. Mr. Goodwin.

The origin, distribution, and economics of petroleum, natural gas, and coal. Emphasis is placed on the relationship of fossil fuels to the national interest and to various aspects of international politics, past and present.

301. *Mineralogy.* First semester; lectures three hours, laboratory four hours; four credits. Prerequisites: Chemistry 101, 102 or Chemistry 111; or permission of the instructor. Mr. Clement.

The study of minerals, the fundamental chemical and physical units comprising the earth. Lectures cover theoretical aspects of minerals such as their origin and crystalline structure. The laboratory emphasizes crystallography and various methods of mineral identification. Field trips substitute for some laboratory periods.

302. *Petrology.* Second semester; lectures three hours, laboratory four hours; four credits. Prerequisite: Geology 301. Mr. Clement.

The study of rock genesis, devoted primarily to igneous and metamorphic rocks. Lectures cover theoretical aspects of rock origin such as crystallization of rock melts and solid state reaction in rocks. The laboratory stresses methods of rock identification and nomenclature. Field trips substitute for some laboratory periods.

312. *Economic Geology—Ores.* Second semester; lectures three hours; three credits. Mr. Clement.

The origin, distribution, and economics of metallic ore deposits. Emphasis is placed on the relationship of ores to the national

interest and to various aspects of international politics, past and present.

401, 402. *History of Geology.* Continuous course; lectures two hours; two credits each semester. Mr. Bick.

The development of modern geologic thought. First semester, from the Classical Greeks to 1700; second semester, 1700 to the present. The course treats extensively of the philosophical, as opposed to purely technical, contributions of geology to Western thought and of the conflict between science and religion over such matters as the origin of the earth, age of the earth, and Darwinism.

406. *Optical Petrography.* Second semester; laboratory four hours; two credits. Prerequisites: Geology 301 and 302; Physics 101, 102, or permission of the instructor. Mr. Clement.

The theory and use of the polarizing microscope for identification of crystalline substances.

407. *Geology of the United States.* First semester; lectures three hours; three credits. Mr. Clement.

The geology and geologic history of the various subdivisions of the United States. The stratigraphy, structure, physiography, and economic geology of each division is covered.

408. *Paleontology.* Second semester; lectures three hours, laboratory four hours; four credits. Prerequisites: Biology 216 and 407; or permission of the instructor. Mr. Bick.

The origin, use, and identification of fossils. Emphasis is placed on the principles of paleontology, on the use of fossils as indicators of past environments, and on fossils as the documentary evidence for organic evolution. Field trips will substitute for some laboratory periods.

411, 412. *Problems in Geology.* Continuous course; lectures one hour (seminar course); one credit each semester. Prerequisite: senior standing. Staff.

An exploration of various problems in geology, largely through an extensive reading program and one class discussion each week.

Government

Professors Moss *(Head of the Department)* and Chou.[1]
Associate Professors Hamilton, Pettengill and
Roherty. Assistant Professors Claude,
Edwards and Taylor. Visiting
Assistant Professor Kim.

REQUIREMENTS FOR CONCENTRATION

For concentrators Government 201, 202 is a prerequisite for all other Government courses. History 101, 102 and Economics 201, 202 should be taken by all concentrators, but these courses do not count toward the concentration. French is the foreign language preferred and it is expected that students will carry their foreign languages beyond the minimum requirement for distribution.

The Government concentration consists of 42 credits of coherently related work selected by the student with the approval of the department. Thirty credits must be taken under members of the department and must be distributed among them and among the fields of political science such as American Government, Comparative Government, Political Theory, International Relations, Public Administration, and State and Local Government. In his senior year each concentrator must take at least one course numbered over 400. Twelve credits of related work may be taken in Economics, History, and Sociology from among courses numbered over 300. History 201, 202 may be included as related.

Departmental approval of the forty-two hours will be given in accordance with the following plan: At the Junior level concentrators are to select three of the following core courses, each of which is a continuous course, and the total will come to eighteen credit hours.

CORE COURSES

303-304. Survey of Political Thought
311-312. Comparatvie Government
323-324. International Relations
371-372. American Political Institutions

In addition Government concentrators are to elect nine credit

[1]On leave of absence, 1964-1965.

hours, including courses numbered over 400, from among other courses in Government.

DESCRIPTION OF COURSES

201, 202. *Introduction to Government and Politics.* Continuous course; lectures three hours; three credits each semester. STAFF.

In the first semester the student is introduced to the nature of political problems and the operation of political institutions. Chief attention is given the problems and institutions of the United States but comparisons are made with Britain, Canada, France, and other countries. In the second semester the student will study international relations. Emphasis is given to the concept of peace as a continuous political process rather than as a static condition.

303, 304. *Survey of Political Thought.* Continuous course; lectures three hours; three credits each semester. MR. ROHERTY.

The first semester is a study of the views concerning the nature and purpose of government, the bases for these views in theology and metaphysics, and the influence of these views upon the course of history. The first semester begins with Plato and concludes with Luther, Calvin, and Hooker. The second semester begins with Machiavelli and follows the secularization of politics through to the present neo-religious conflicts of Fascism, Communism, and liberal Democracy.

311, 312. *Comparative Government.* Continuous course; lectures three hours; three credits each semester. MISS HAMILTON.

A comparative study of institutions and processes of government in their cultural, social and economic settings. In the first semester, countries of western Europe will be considered with emphasis on England and France. In the second semester, governments of non-western nations will be analyzed with emphasis on India and one or more of the African nations. Particular attention will be given to indigenous institutions and the problem of "institutional transfer".

314. *Political Geography.* Second semester; lectures three hours; three credits. STAFF.

A study of the nature of geographic factors and their influence in politics and international relations.

322. *International Organization.* Second semester; lectures three hours; three credits. Mr. Kim.

A study of the development of the structures and procedures of international organization, and of the methods for pacific settlement of international disputes. Special attention will be given the League of Nations and the United Nations and the gains and failures of these organizations.

323, 324. *International Relations and American Foreign Policy.* Continuous course; lectures three hours; three credits each semester. Mr. Kim and Mr. Taylor.

The first semester offers an analysis of such problems of international politics as elements of power, nationalism, imperialism, national security, diplomacy and international law and organization. The second semester is concerned with those factors which have had an impact on American foreign policy since the Second World War, such as the Cold War, the emerging nations of Africa and Asia, and regional developments particularly with respect to Europe. Attention is also given to the process of policy formation.

331. *Comparative Politics.* First semester; lectures three hours; three credits. Mr. Taylor.

A comparative approach to the study of politics. Special attention will be given to such problems as totalitarianism and constitutional democracy and to leadership, decision-making and the representation of interests within various political systems.

334. *The Soviet Union.* Second semester; lectures three hours; three credits. Mr. Chou.

A study of the political and economic systems of the Soviet Union and an analysis of the historical roots of Russian political thought in relation to Marxism as interpreted by the Soviets. Attention will be given to Communism as a world movement.

336. *The Far East.* First semester; lectures three hours; three credits. Mr. Kim.

A survey of the national and international politics of China, Japan, Soviet Asia, Indonesia, the Philippines, Siam, Indo-China, Burma and Korea. There will be interpretation of the social,

economic, and cultural background of these countries and an evaluation of the conflict of interests among the Western Powers in Asia. Emphasis is placed upon the period since the first World War and upon the future outlook of Asia.

337. *Africa.* Second semester; lectures three hours; three credits. Mr. Kim.

A study of selected newly independent nations of Africa south of the Sahara. Emphasis will be placed on phenomena such as the rise of nationalism, the development of African party and governmental systems, and the role of Africa in international politics.

351. *Public Administration.* First semester; lectures three hours; three credits. Mr. Pettengill.

A survey of the theory and practice of public administration. Emphasis is placed on the topics of decision-making; organization; and financial, personnel, and judicial administration. Field trips are used for illustrative material.

353. *The Politics of States and Localities.* First semester; lectures three hours; three credits. Mr. Pettengill.

A study of the principal problem areas, including urbanism, representation, and services. Field trips are scheduled.

354. *Urban Planning and Public Policy.* Second semester; lectures three hours; three credits. Mr. Pettengill.

A study of the relationship of planning to local government. Emphasis is placed on the development of a master plan, the planning agency, and the objectives of guided urban development. Field trips are arranged.

371, 372. *American Government.* Continuous course; lectures three hours; three credits each semester. Mr. Edwards.

The first semester concerns the constitutional framework of government, centering upon Supreme Court interpretation; stress is placed on the scope and distribution of government powers and limitations upon the exercise of these powers. Congress and the President provide the focus for the second semester; attention will be given to the influence of political parties, executive-legislative relations, and the President as administrator.

373. *American Civil Liberties.* First semester; lectures three hours; three credits. Mr. Claude.

This course is an intensive study of the rights of Americans as guaranteed by the Constitution. The changing character of civil liberties problems in the United States will be stressed with attention given to the legal, historical and political context of the cases studied. Class discussion and reports will be emphasized.

374. *American Constitutional Development.* Second semester; lectures three hours; three credits. Mr. Claude.

An analysis of the development of the constitutional basis of American Government with emphasis upon the part played by the courts in adapting the constitution to the needs of a changing society.

401, 402. *American Political Thought.* Continuous course; lectures three hours; three credits each semester. Mr. Claude.

This course consists of a survey of American political thought from colonial times to the present. In the first semester, emphasis will be placed upon readings and discussion of such figures as Madison, Jefferson, Tocqueville and Lincoln. Class discussions will be relied upon to elicit from such writings some of the underlying theoretical problems of the American political tradition.

403. *The Political Theory of National Security.* First semester; seminar two hours; conference one hour. Mr. Roherty.

This course is an appraisal of such problems as aggression, "just war," the use of nuclear weapons, ideological and psychological conflict, and the role of the military in national policy as they affect democratic institutions in the Twentieth Century.

406. *Political Parties.* Second semester; lectures three hours; three credits. Mr. Moss.

An analysis of the nature, sources, and organization of political power, and of the factors governing its conquest and surrender. The course deals chiefly with American politics but makes comparisons with politics of other countries. Special attention is given the problem of analyzing and reporting political situations.

410. *British Government and Politics.* First semester; lectures three hours; three credits. Mr. Moss.

A study of political institutions and political behavior in the United Kingdom and Eire. Special attention is given comparisons with the United States and the parliamentary democracies of the Commonwealth.

411. *Problems in Comparative Politics.* First semester; two hours seminar, one hour consultation; three credits. Prerequisite: Consent of the instructor. Miss Hamilton.

A study of selected problems of comparative politics with emphasis on the countries of western Europe.

412. *Studies in Comparative Politics.* Second semester; two hours seminar, one hour consultation; three credits. Prerequisite: Consent of the instructor. Mr. Taylor.

A study of the problems of comparative politics such as those involved in political change and in nation-building.

413, 414. *Studies in Political Thought.* Any semester; seminar two hours, consultation one hour; three credits each semester. Mr. Moss and Mr. Roherty.

A study of the work and significance of a particular great political theorist such as Hobbes, Locke, Rousseau, Burke, or Mill, or of a major movement such as Utilitarian Reformism, English Idealism, or Marxism. The theorist or movement will be chosen by the instructor for the semester. Provided the student does not repeat the study of any particular theorist or movement he may earn not more than six hours credit in this course.

*417, 418. *Seminar in Contemporary Political Theory and Institutions.* Continuous course; seminar three hours; three credits each semester. Mr. Moss.

A study of some aspects of contemporary thought and institutional developments. Original essays will be written by each student and discussed by the class.

424. *International Law.* Second semester; lectures three hours; three credits. (See Marshall-Wythe School of Law). Mr. Chou. Mr. Chou.

A survey of the general principles and theories of international law, coupled with case studies. Emphasis is given to the practice

of international law by the major powers as well as to the new problems of international law which have arisen as a result of recent war. The position of war in international law is also dealt with. The completion of sixty semester credits is a prerequisite for students in this course.

452. *The Administrative Process.* Second semester; lectures three hours; three credits.

A study of decision-making in modern bureaucracy with primary emphasis on United States practice. The functions and dysfunctions of large public service organizations will be dealt with.

461, 462. *The American Constitutional System.* Continuous course; lectures three hours; three credits each semester. Mr. Edwards.

An analysis of the United States Constitution and its interpretation by the Supreme Court through readings and discussion of cases and essays. The first semester is devoted to jurisprudence, federalism and the separation of powers; the second semester to property and civil liberties.

HONORS STUDY

495, 496. *Honors.* Continuous course; hours to be arranged; three credits each semester. Staff.

Students admitted to Honors Study in Government will be enrolled in this course during both semesters of their senior year. They will be responsible for (a) reading and discussion of a selected list of books; (b) satisfactory completion by May 1 of an original scholarly essay; (c) satisfactory performance in a comprehensive examination in the field of the student's major interest.

History

Professors McCully *(Acting Head of the Department)*, Abbot, and Fowler. Associate Professors Donaldson, Johnson, and Tate. Assistant Professors Brent, Esler, Orlow, and Sherman. Instructors Gruber, and Wood. Lecturers Cappon, Carson, Riley, Selby, Smith,[1] and Taylor.[2] Acting Instructor Thomas.

REQUIREMENTS FOR CONCENTRATION

Concentration in History requires 30 semester credits in history, including History 101, 102, 201 and 202, taught by regular members of the department or by lecturers from the Institute of Early American History and Culture.

French and German are recommended for students planning to concentrate in history.

DESCRIPTION OF COURSES

European History

101, 102. *History of Europe.* Continuous course; lectures three hours; three credits each semester. Mr. Fowler, assisted by Mr. Brent, Mr. Esler, Mr. Johnson, Mr. McCully, Mr. Orlow, Mr. Sherman, Mr. Tate, and Miss Thomas.

A general introduction to the history of Europe from the end of the Roman Empire to the present time. The first semester goes to 1715; the second, from 1715 to the present day.

301, 302. *The Ancient World.* Continuous course; lectures three hours; three credits each semester. Mr. Ryan.[3]

Ancient civilization from prehistoric times to the downfall of the Roman Empire. The first semester deals with the ancient Orient and Greece, up to B.C. 338; the second semester deals with Alexander, the Hellenistic World and Rome. (Same as Greek 311-Lation 312. The course cannot be counted for concentration in history.)

[1]On leave of absence, 1964-1965.
[2]Visiting Lecturer, 1964-1965.
[3]Professor of Ancient Languages.

407, 408. *Europe and the French Predominance in the Seventeenth and Eighteenth Centuries.* Continuous course; lectures three hours; three credits each semester. Mr. McCully.

After an examination of sixteenth century Europe, the course traces the political and cultural development of France and its expansion overseas from the Renaissance to the Age of Enlightenment.

409, 410. *England Under the Tudors and Stuarts.* Continuous course; lectures three hours; three credits each semester. Prerequisites: History 101, 102. Mr. Fowler.

The first semester, 1485-1603; the second semester, 1603-1714.

412. *Constitutional History of Modern England.* Second semester; lectures three hours; three credits. Mr. McCully.

A survey of English constitutional development from the end of the Middle Ages to the present. The course stresses the Tudor strong monarchy, the conflict of Crown and Parliament under the Stuarts, the Revolution of 1688 and the establishment of the limited monarchy, the rise of cabinet government, the growth of democracy, and the development of the civil service. (See Marshall-Wythe School of Law).

417, 418. *The British Empire.* Continuous course; lectures three hours; three credits each semester. Mr. McCully.

First semester, the formation and development of the old Colonial Empire through the American Revolution. Second semester, the rise of the new Empire through the nineteenth and twentieth centuries to the establishment of the British Commonwealth of Nations.

419, 420. *Contemporary Europe.* Continuous course; lectures three hours; three credits each semester. Prerequisite: History 102. Mr. Orlow.

First semester, 1900-1933, the background of World War I, the course of the War, the Russian Revolution and the establishment of the Bolshevik regime, and the rise of the radical right in Western and Central Europe. Second semester, 1933—present, the failure of appeasement, World War II and the inter-Allied conferences, and the emergence of the Western European Union.

427, 428. *Europe, 1815-1914.* Continuous course; lectures three hours; three credits each semester. Prerequisites: History 101, 102. Mr. Esler.

Emphasis on the political and intellectual history of western and eastern Europe.

431, 432. *Russia and the Soviet Union.* Continuous course; lectures three hours; three credits each semester. Prerequisites: History 101, 102. Mr. Esler.

The political, economic and intellectual development of Russia in the nineteenth and twentieth centuries.

433, 434. *Modern Germany.* Continuous course; lectures three hours; three credits each semester. Prerequisite: History 102. Mr. Orlow.

First semester, 1786-1871, after a brief review of Prussia's rise to great power status, stresses the impact of the French Revolution on Germany, and the road to German unification. Second semester, 1871-1945, the rise and fall of the German Empire, the republican interlude, and the rise and collapse of the Third Reich.

American History

201, 202. *American History.* Continuous course; lectures three hours; three credits each semester. Mr. Brent, Mr. Gruber, Mr. Johnson, Mr. Sherman, Mr. Tate, and Mr. Wood.

The development of the United States. Special emphasis is placed on the period since 1776.

*402. *Topics in Modern History.* Second semester; lectures three hours; three credits. Staff.

A seminar course which offers the student an opportunity for supervised but independent study and research. Its primary purpose will be to introduce the student to the resources of the library and to give him practice in the presentation of historical material in both written and spoken form.

403. *Virginia, the Colony.* First semester; lectures three hours; three credits. Prerequisite: History 201. Mr. Tate.

Colonial Virginia will be studied with an eye to the emergence and shaping of political, economic and social institutions in the context of Colonial America.

405, 406. *Early American History.* Continuous course; lectures three hours; three credits each semester. 405, Mr. Abbot, 406, Mr. Tate.

The Colonial Period, Revolution and Confederation, the Federalist and Jeffersonian Eras. Special stress is laid on the ideas and institutions which developed in British North America and which, in the course of the struggle for independence and the formation of the union of states, emerged as a distinctive national culture. The course divides at the year 1763.

421, 422. *The United States, 1815-1877.* Continuous course; lectures three hours; three credits each semester. Mr. Johnson.

An intensive survey of the origins, development, and outcome of the struggle between the North and South.

423, 424. *The United States Since 1877.* Continuous course; lectures three hours; three credits each semester. Mr. Sherman.

The emergence of the United States as an industrial and world power.

425-426. *American Intellectual History.* Continuous course; lectures three hours; three credits each semester. Mr. Brent.

A study of the relation between ideas and events from Colonial times through the present. Included are investigations of philosophical, religious, political, and economic ideas as they relate to the Reformation, the Enlightenment, Transcendentalism, Slavery, Darwinism, Pragmatism and other categories. A familiarity with philosophy is strongly recommended.

429. *The Forming of the American Constitution.* Second semester; lectures three hours; three credits. Mr. Tate.

Special attention is given to the Revolutionary period, 1763-1775, to the Constitutional Convention of 1787, and to the influence of John Marshall in the early nineteenth century. (Not offered 1964-1965.)

HONORS STUDY

495, 496. *Honors.* Continuous course; hours to be arranged; three credits each semester. STAFF.

Students admitted to Honors Study in History will be enrolled in this course during both semesters of their senior year. Each candidate will be responsible for (a) reading and discussion of a selected list of books in some specific area of historical literature, (b) a scholarly essay by May 1, (c) a comprehensive oral examination.

GRADUATE COURSES

†501, 502. *The Literature of American History.* Continuous course; lecture three hours; three credits each semester. STAFF.

This course is designed to acquaint the graduate student with the extensive and important body of literature dealing with American history and also to aid the student in a critical evaluation of that literature. History 501 will cover the outstanding historical writings on early American history (1607-1815); History 502 will cover the literature of nineteenth and twentieth century America.

†503. *Historical Method.* First semester; lectures three hours; three credits. MR. CAPPON.

A course combining the bibliography, the methods and practice of research in American history and its British background.

†505. *Seminar in American History Before 1815.* Second semester; lectures three hours; three credits. STAFF.

†506. *Seminar in American History, 1815-1877.* Second semester; lectures three hours; three credits. MR. JOHNSON.

†508. *Seminar in Recent American History.* Second semester; lectures three hours; three credits. MR. SHERMAN.

†560. *Thesis.* Hours to be arranged. STAFF.

Work in preparation of a thesis to fulfill the requirements for the degree of Master of Arts in history.

PROGRAM FOR THE MASTER OF ARTS DEGREE IN HISTORY

The College is in an unusually fortunate position to offer work in American history at the master's level. There are important

and growing collections of primary and secondary materials in the libraries of the College, Colonial Williamsburg, and the Institute of Early American History and Culture. The City of Williamsburg and the surrounding country furnish an inspiring background. Closely associated with the Department of History in this program are the members of the staff of the Institute (sponsored jointly by the College and Colonial Williamsburg, Incorporated), and the members of the staff of the Research Department of Colonial Williamsburg.

Admissions and Requirements

Candidates for admission to graduate study shall have a bachelor's degree from the College of William and Mary or from a college having similar requirements for the bachelor's degree and at least a B average in their undergraduate work. They must apply for admission to the Dean of Admissions as early as possible (for the session 1965-1966, by May 15, 1965). The application must be approved by the Committee on Graduate Studies and by the head of the Department of History. An interview with a member of the Department is most desirable.

Candidates for the degree must be in residence for at least two semesters and, in addition to History 560 (Thesis), must obtain 24 semester credits in courses above the 300 level with a grade of B or better in each course, including 501, 502, 503, and one additional 500 course. Candidates must demonstrate a reading knowledge of one foreign language, prepare a thesis, and pass an oral comprehensive examination to be taken at least two weeks before the regular semester examinations. Graduate students enrolled in advanced courses opened to undergraduates shall be required to do additional work on the graduate level. Each graduate student shall have a faculty supervisor who will be primarily responsible for the student's choice of a thesis subject and for advising him regarding research and writing problems encountered in preparing the thesis. All thesis subjects must be approved by the head of the Department.

The records of graduate students will be reviewed by the Department at the end of the first semester of residence to determine final acceptance as candidates for the degree of Master of Arts.



Cornelia Storrs Adair Gymnasium for Women

Archery Class, Women's Physical Education





The Pathfinder, School of Marine Science Research Vessel

Rogers Hall (l) from The Sunken Garde



Curriculum

Besides the advanced courses in American History, the Department offers eighteen semester hours in advanced courses in European History closely related to American History and, hence, wholly acceptable as part of the program for the Master of Arts degree.

Combined Master of Arts Degree and Apprenticeship Program

The History Department of the College of William and Mary also offers a combined program of academic study for the degree of Master of Arts in American History and practical training in historical administration, in cooperation with the Institute of Early American History and Culture, and Colonial Williamsburg, Incorporated. The three fields in which apprenticeship training is available are: Editing Historical Books and Magazines (Institute of Early American History and Culture); Operations of an Historical Library (The College Library and the Library of Colonial Williamsburg, Incorporated; and the Interpretation of Historical Sites (Colonial Williamsburg, Incorporated). The training program adds approximately five months time to the M.A. program.

Home Economics

Associate Professor Wilkin *(Head of the Department)*.
Assistant Professor T. Miller.

The purpose of the Home Economics Department is to offer courses in homemaking that will be useful to the student in her own home. At the same time these courses are planned to relate to and supplement instruction which the student receives in many of the courses given in arts, sciences and history.

201. *Home Living.* Either semester; lectures three hours; three credits. Mrs. Miller.

This is an introductory course in which the significance of foods and nutrition, textiles and clothing, art in the home, organization of the activities of the home, and consumer education is presented. Historic and contemporary patterns of home living are studied.

209. *Foods: Principles of Preparation.* First semester; lecture one hour, laboratory four hours; three credits. Mrs. Miller.

A study is made of the fundamental scientific principles of food preparation and conservation of nutritive values. Aesthetic factors in family meals are presented.

210. *Foods: Meal Planning and Dining Customs.* Either semester; lecture one hour, laboratory four hours; three credits. Mrs. Miller.

This course includes the serving of family meals and special meals, menu planning at different levels of cost, marketing, organizing and preparation. Attention is given to the cultural and social values in family dining.

301. *Nutrition and Physical Fitness.* Second semester; lectures three hours; three credits. Mrs. Miller.

Basic nutritional knowledge applicable to achieving optimal health is stressed. Malnutrition in the United States and the world, and national and international activities for improving the nutrition of entire populations are studied.

307. *Clothing Construction.* Either semester; laboratory six hours; three credits. Miss Wilkin.

The chief objectives of this course are the development of standards by which to achieve satisfactory results in clothing design and construction, the selection of fabrics and style, and the use of modern tools, new processes and new equipment.

308. *Special Problems in Clothing Construction.* Either semester; laboratory six hours; three credits. Miss Wilkin.

A knowledge of basic procedures in sewing is required. Fundamentals of pattern making will be studied. Individual problems will be selected on consultation with the instructor. Tailored coats and suits, dress designs involving intricate work, including hand sewing and hand decoration or other special problems may be chosen.

309. *Textiles.* First semester; lectures three hours; three credits. Miss Wilkin.

The place of textiles in the domestic, industrial and commercial world is stressed. Natural and man-made fibers are studied as to characteristics, limitations, and care of each. The construction decoration, finishes, and the probable durability of each are evaluated.

310. *Textile Design and Decoration.* Second semester; lectures two hours, laboratory two hours; three credits. Miss Wilkin.

Notable historic textiles of ancient Oriental and Persian as well as Italian, French, and English Renaissance designs are studied noting their artistic quality, the symbolic art forms, and the influence of these on contemporary textile decoration. Museum prints and plates, as well as collections of Colonial Williamsburg and other historic shrines are used as illustrative material.

425. *Home Furnishing and Decoration: America.* Second semester; lectures three hours; three credits. Miss Wilkin.

A study is made of American homes and their prototypes in England and Europe. Authentic features in exterior and interior design, furnishings and accessories for such periods as Early American, Georgian, Victorian, and Contemporary are stressed.

326. *Home Furnishing and Decoration: Historic.* Either semester; lectures three hours; three credits. Miss Wilkin.

A study is made of style, decoration, furnishings and artistic merits of homes from ancient Egypt to the present. The study follows the development of culture and reveals the life of the people.

327. *Historic Costume.* First semester; lectures three hours; three credits. Miss Wilkin.

A study is made of dress as it parallels the development of civilization and reflects social, religious, political and economic conditions. Today's styles are studied for parallels with those of the past.

329. *Home Management.* Either semester; lectures three hours; three credits. Mrs. Miller.

A study is made of organizing the household and planning the daily activities to conserve material and human resources and to provide a satisfying background for pleasant family living.

431. *Consumer Education.* Either semester; lectures three hours; three credits. Mrs. Miller.

The position of the consumer as a buyer in the contemporary economic order is studied. Standards, grades, labels, budgeting, owning versus buying a home, aids from Federal bureaus and certificating agencies are discussed. Family financial problems throughout the entire life cycle are stressed.

Humanities

Professor Evans. Associate Professor Kallos.

201, 202. *Literature.* Continuous course; lectures three hours; three credits each semester.

An introduction to the interpretation and evaluation of major works of literature, in English. About ten works are studied, including portions of the Bible, a classical epic, several Greek and Shakespearean dramas, and representative novels, plays and poems of various ages and cultures.

Marshall-Wythe School of Law[1]

THE FACULTY

Joseph Curtis, B.S., LL.B., LL.M., *Dean and Professor of Law*

Dudley Warner Woodbridge, A.B., J.D., *Dean Emeritus and Chancellor Professor of Law*

Arthur Warren Phelps, A.B., M.A., LL.B., LL.M., *Professor of Law*

Thomas Conner Atkeson, B.S., M.S., Ph.D., *Professor of Taxation*

James Primrose Whyte, Jr., A.B., M.A., LL.B., *Professor of Law*

William Finley Swindler, A.B., B.S., M.A., Ph.D., LL.B., *Professor of Legal History*

Edwin Blythe Stason, Jr., A.B., M.A., LL.B., LL.M., *Assistant Professor of Law*

Emeric Fischer, B.S., B.C.L., L&T.M., *Instructor in Law*

Charles Harper Anderson, A.B., B.C.L., LL.M., *Lecturer*

Harry E. Atkinson, *Lecturer*

Anna Boothe Johnson, B.S., *Librarian*

Joseph Marshall Cormack, A.B., LL.B., J.S.D., *Professor of Law Emeritus*

Participating Staff Members From Other Departments

I-Kua Chou, LL.B., A.M., Ph.D., *Professor of Government*

William T. Reece, B.S., M.B.A., *Associate Professor of Business Administration*

Anthony L. Sancetta, A.B., M.S., Ph.D., *Professor of Economics*

[1]See also Marshall-Wythe School of Law Bulletin, 1964-1965.

HISTORY

The School of Law was originally established December 4, 1779, when, by resolution, the Board of Visitors created a professorship of Law and Police. Antedated by the Vinerian professorship at Oxford, established twenty-one years earlier and held by Sir William Blackstone, and perhaps by the chair at Trinity College, Dublin, the chair of law at the College of William and Mary thus became one of the earliest in the English-speaking world and the oldest in the United States.

The part played by Thomas Jefferson in placing laws among the subjects taught at his *Alma Mater* is told briefly in his *Autobiography*.[1]

> On the 1st of June, 1779, I was appointed (elected) Governor of the Commonwealth and retired from the legislature. Being elected also one of the Visitors of Wm. & Mary College, a self-electing body, I effected during my residence in Williamsburg that year, a change in the organization of that institution by abolishing the Grammar School, and the two professorships of Divinity & Oriental languages, and substituting a professorship of Law & Police, one of Anatomy, Medicine and Chemistry, and one of Modern Languages; and the charter confining us to six professorships, we added the law of Nature & Nations, & the Fine Arts to the Duties of the Moral professor, and Natural history to those of the professor of Mathematics and Natural philosophy.

The Board of Visitors elected as the first law professor George Wythe in whose office Jefferson had studied. A signer of the Declaration of Independence and styled by Jefferson the American Aristides, Wythe was a judge of the Virginia High Court of Chancery and one of the earliest judges to enunciate the doctrine of judicial review.

The elevation of Wythe to the sole chancellorship of Virginia, ten years after the chair of law was established, necessitated his removal to Richmond and his resignation from the faculty. He was succeeded by St. George Tucker, whose edition of Blackstone is a legal classic and one of the first law books published in America.

[1]Ford's edition, I, 69-70.

Among the last to hold the professorship at Williamsburg prior to 1861 was Lucian Minor, a member of another Virginia family intimately associated with the law.

Soon after its foundation, and probably from the very beginning, the law school of the College of William and Mary demanded an academic baccalaureate degree as a requirement for a law degree, the College statutes compiled in 1792 providing:

> For the degree of Bachlor of Law, the student must have the requisites for Bachelor of Arts; he must moreover be well acquainted with Civil History, both Ancient and Modern and particularly with Municipal law and police.

In May, 1861, with the closing of the College, because of the exigencies of war, the law school ceased to function. When the College resumed operation, financial stringency resulted in the granting of leaves of absences to some of the faculty. Among these was the professor of Law. This leave of absence continued indefinitely. During the precarious years in the life of the institution following the Civil War the Law School remained largely dormant. Its revival, begun in 1920, was completed with the session of 1922-23.

The School of Law is registered by the State Department of Education of the University of the State of New York, is approved by the American Bar Association, and is a member of the Association of American Law Schools.

LIBRARY

The Library of the Marshall-Wythe School of Law contains 35,000 volumes, and includes the National Reporter System, the American Digest System, all the Reports of the Supreme Court of Appeals of Virginia, all the United States Supreme Courts Reports, and up-to-date statutes for Virginia and most of the adjacent and important commercial states. Also available are legal periodicals, session laws, state and municipal codes, digests, general and legal dictionaries and encyclopedias, texts, citators, and reports of many courts of last resort. The Law Library is administered by the Law Librarian, and during the regular session is open a total of 100 hours per week.

WILLIAM AND MARY LAW REVIEW

The *William and Mary Law Review* is published semi-annually by the students of the School of Law with the cooperation of the faculty. Its primary objective is to provide an opportunity for student legal composition. The editor each year is a student selected by the faculty who is aided by an editorial board. The editors in 1964-1965 were Gregory U. Evans, graduated in February, 1965, and Paul Auster, serving the remainder of the session.

PRE-LEGAL STUDIES

While no specific academic subjects, apart from the general requirements for the baccalaureate degree, are required for admission to the School of Law, students who expect to proceed to the law degree are urged to complete the general degree requirements before commencing the work in Law. It is recommended that such students consult with the pre-legal adviser of the School as early in their college careers as possible regarding the scope and distribution of their academic work.

ADVANCED CREDIT

Within the discretion of the faculty of the School, credit may be allowed for subjects satisfactorily completed at approved law schools, not to exceed the equivalent of 60 semester credits.

EXCLUSION BECAUSE OF POOR SCHOLARSHIP

Any student who has been admitted to candidacy for the degree of Bachelor of Civil Law and who does not maintain a quality point average of at least 1.0, or who fails more than five hours in any semester will be permitted to continue his course only with the consent of the faculty of the School.

DEGREE REQUIREMENTS

The Bachelor of Arts Degree—Six Years Combined Course

Students who have completed three years of pre-legal work will be awarded the Bachelor of Arts degree on the satisfactory completion of the first year's work in law. The first two years of such pre-legal work may be done in any accredited college or

university provided that the requirements of the College of William and Mary as to the nature and quality of the work are met. By proceeding in this way it is possible for students to receive both their arts and law degrees within a period of six academic years. For further detail regarding this program, see sub-heading Combined Six-Year Program at page 206.

The Bachelor of Civil Law Degree

Students holding an academic baccalaureate degree from an institution of approved standing, who have been in residence in the Law School for at least ninety weeks (or, in case advanced credit has been allowed have been in residence in this school at least during their last year), who have completed satisfactorily at least ninety semester credits in law with a quality point average of 1.0 or better in *all* the law work undertaken, and who have demonstrated their eithical fitness, will receive the degree of Bachelor of Civil Law (B.C.L.), the historic law degree of the College of William and Mary in Virginia. This degree is a professional degree in law and the equivalent of the more usual bachelor of laws degree.

MISCELLANEOUS INFORMATION

Method of Instruction. While each instructor has full liberty to adopt his method of teaching, the plan most generally used consists of the discussion of cases and legal problems. Students are encouraged from the beginning to make the fullest use of the law library.

Scholarships and Prizes. Matthew Gault Emery Law Scholarship, the Virginia Trust Company Will Draftmanship Contest, the Lawyers Title Insurance Corporation Award, the Seidman & Seidman Tax Award, the William A. Hamilton Prize, and the William A. R. Goodwin Memorial Fund Scholarships. See Scholarships.

ADMISSION REQUIREMENTS

The following persons may be admitted to courses in Law:

1. Students holding an academic baccalaureate degree from an institution of approved standing who have the equivalent of a 1.3 average in all work taken and a satisfactory score on the Law School Admission Test given by the Educational Testing Service

of Princeton, New Jersey, may be considered for admission to the School of Law and take any subject or course of study approved by the Dean of the School; provided, however, that students who are candidates for the degree of Bachelor of Civil Law shall follow the regular course of study.

2. Undergraduate students who desire to be admitted to courses in law must have finished three-fourths of the work and must have earned three-fourths of the quality points required for a baccalaureate degree within a period not exceeding seven and one-half semesters. For further detail regarding law credit for such courses, see sub-heading combined six-year program at page .....

3. Students of academic junior standing who have completed one-half of the work and who have earned one-half of the quality points required for a baccalaureate degree within a period not exceeding five semesters may take a limited amount of work for elective credit (but not for law credit), with the consent of the Dean of the School.

4. Within the discretion of the faculty of the School, persons of exceptional promise who fail to meet the above requirements may be admitted as special students[1] and may take subjects in law approved by the Dean of the School.

Any person who is not in good standing, academically or otherwise, at any institution previously attended will not be eligible for consideration for admission.

Subject to the above provisions, registration is the same as for the College at large. Inquiries should be addressed to the Dean of The Law School.

Course of Study

ALL FIRST AND SECOND YEAR COURSES ARE REQUIRED

FIRST YEAR

First Semester	*Credits*	*Second Semester*	*Credits*
Agency	2	Criminal Law	3
Civil Procedure	5	Legal Writing	2
Contracts	4	Negotiable Instruments	3
Property I	4	Property II	3
		Torts	4
	15		15

[1]The number is limited in accordance with the recommendation of the Legal Education Section of the American Bar Association.

SECOND YEAR

First Semester	*Credits*	*Second Semester*	*Credits*
Appellate Briefing	1	Constitutional Law	4
Business Associations	4	Creditors' Rights	4
Evidence	3	Family Law	2
Federal Income Tax Law	3	Legal Profession	2
Trusts and Estates	4	Conflict of Laws	3
	15		15

THIRD YEAR

Electives totalling at least 15 hours credit in each of the two semesters to be selected from the following courses:

First Semester	*Credits*	*Second Semester*	*Credits*
Administrative Law	3	Adjective Tax Law	2
Equity	2	Advanced Income Taxation	4
Estate and Gift Taxation	3	Constitutional History of Modern England (Hist. 412)	3
Labor Law	3	Federal Taxation[1]	3
Legal History	3	Government and Business Enterprise (Econ. 426)	3
Legal Philosophy	3	International Law (Govt. 424)	3
Legal Research[2]	—	Legal Accounting (Bus. 410)	3
Legislation	2	Legal Research[2]	—
Survey of Tax Literature	3	Municipal Corporations	3
Tax Administration and Procedure	3	Preparation of Tax Forms	2
Tax Research	—	Sales	2
Trial and Appellate Court Practice	3	State and Local Taxation	3
		Tax Research	—
		Virginia Procedure	3

DESCRIPTION OF COURSES

Adjective Tax Law. Second semester; conferences two hours; two credits. MR. CURTIS.

Application of res judicata, estoppel, equitable and statutory recoupment doctrines in tax litigation; jurisdiction of the courts in tax matters; nature and burden of proof, civil and criminal; tax liens, transferee liability, and other matters pertinent to collection of taxes.

[1]May be taken in lieu of, but not in addition to, Federal Income Tax Law.

[2]Not more than 3 hours total credit toward fulfillment of degree requirements.

Administrative Law. First semester; lectures three hours; three credits. Mr. Atkinson.

Economic and social forces in regulatory action by administrative tribunals; rule-making and adjudicative procedures by federal and state administrative tribunals and the remedies against administrative action.

Advanced Income Taxation. Second semester; lectures four hours; four credits. Mr. Atkeson.

Corporate reorganizations, distributions and capital transactions; corporate income of foreign origin; comparative analysis of tax treatment accorded regular corporations and special classes of corporations and organizations; pension and profit sharing plans; partners and partnerships.

Agency. First semester; lectures two hours, two credits. Mr. Fischer.

Liability of employer for unauthorized acts of his employees, of employer to employee under common law and statute, power of employee to bind employer in contract and tort, undisclosed principals, ratification and termination of the representative relation.

Appellate Briefing. First semester; lectures and conference one hour; one credit. Mr. Whyte.

Preparation of a written brief and oral argument of a selected civil or criminal case before a court composed of faculty members or members of the local bar and bench.

Business Associations. First semester; lectures four hours; four credits. Mr. Phelps.

The general principles of the laws of private corporations and of partnerships; comparison of corporations with other business units, disregard of corporate fiction, formation of a corporation, pre-incorporation agreements, management, control, distribution of earnings, derivative suits.

Civil Procedure. First semester; lectures five hours; five credits. Mr. Anderson.

Common law actions, suits in equity, contemporary judicial organization, code pleading, the Rules of Civil Procedure for the

United States Districts Courts, trial practice, and an introduction to the basic rules of evidence.

Conflict of Laws. Second semester; lectures three hours; three credits. Mr. Stason.

Doctrines of renvoi, characterization and localization; local and territorial rights theories; effect of the full faith and credit, due process, equal protection, and privileges and immunities provisions of the Federal Constitution when the facts of a situation involve more than one state or country; divorce in other than the marriage domicile jurisdiction.

Constitutional History of Modern England. Second semester; lectures three hours; three credits. Mr. McCully. (This is Hist. 412 in College Catalogue.)

Survey of English constitutional developments from the end of the Middle Ages to the present; the Tudor strong monarchy, the conflict of Crown and Parliament under the Stuarts, the Revolution of 1688 and the establishment of the limited monarchy, the rise of cabinet government, the growth of democracy, and the development of the civil service. (Not offered 1964-1965).

Constitutional Law. Second semester; lectures four hours; four credits. Mr. Whyte.

Judicial function in constitutional cases, division of powers and relationships between the states and the Federal Government, national and state citizenship and protections afforded individual rights.

Contracts. First semester; lectures four hours; four credits. Mr. Woodbridge.

Offer and acceptance, consideration, seals, conditions, anticipatory repudiation, damages, impossibility, third party beneficiaries, assignments, discharge, illegality, statute of frauds.

Creditors Rights. Second semester; lectures four hours; four credits. Mr. Stason.

Priority of claims in bankruptcy, reorganization and other insolvency proceedings; processes in the trustee's securing and distribution of assets; nature and characteristics of real and personal property securities.

Criminal Law. Second semester; lectures three hours; three credits. Mr. Whyte.

Substantive elements of the principal crimes, imputability and responsibility, proceedings preliminary to trial, introduction to the administration of criminal law, defenses and rights of persons accused of crimes, professional responsibility in the practice of criminal law.

Equity. First semester; lectures two hours; two credits. Mr. Stason.

Injunctions, receiverships, specific enforcement, and other effective methods of equitable enforcement; decrees clearing title; requisites of equitable processes; superseding remedies at law.

Estate and Gift Taxation. First semester; lectures three hours; three credits. Mr. Curtis.

Concepts of gross estate, gross gifts, deductions and credits, with consideration given to the tax aspect of estate planning.

Evidence. First semester; lectures three hours; three credits. Mr. Phelps.

Competency of witnesses, examination of witnesses, creditability, hearsay, searches and seizures, scientific evidence, circumstantial proof, burden of proof, protection of confidential relationships, privilege against self-incrimination and the protection of state secrets.

Family Law. Second semester; lectures two hours; two credits. Mr. Phelps.

The contract to marry, marriage, annulment, including statutory grounds and defenses; divorce, including jurisdiction, statutory grounds and defenses; separation agreements; alimony; custody of children.

Federal Income Tax Law[1]. First semester; lectures three hours; three credits. Mr. Curtis.

Concepts of income, exclusions, exemptions, deductions and credits, consideration of basis, capital gains and losses, tax-

[1]Federal Income Tax Law and the Federal Taxation course can be taken only in the alternative and credit for both will not be allowed.

deferred exchanges, and other transactions accorded specialized treatment; jurisprudential and mechanics of reporting aspects considered.

Federal Taxation[1]. Second semester; lectures three hours; three credits. Mr. Reece.

Structure of the Federal income, social security, estate and gift tax bases; reconciliation of tax and accounting concepts; tax credits and tax computations.

Government and Business Enterprise. Second semester; lectures and conference three hours; three credits. Mr. Sancetta. (This is Econ. 426 in College Catalogue.)

Economic, legal, and political aspects of government regulation of, aid to, and competition with private business.

International Law. Second semester; lectures three hours; three credits. Mr. Chou. (This is Govt. 242 in College Catalogue.)

Survey of the general principles and theories of international law, coupled with case studies; the practice of international law by the major powers and the new problems of international law which have arisen as a result of recent war; the position of war in the international law. (Not offered 1964-1965).

Labor Law. First semester; lectures three hours; three credits. Mr. Whyte.

Rights of workers to strike, picket and boycott, administration of the National Labor Relations Act, as amended, representation, organizational procedure, arbitration and other processes of collective bargaining.

Legal Accounting. Second semester; lectures three hours; three credits. Mr. Reece. (This is Bus. 410 in College Catalogue).

Survey of the general field of accounting, incorporating principles of double-entry bookkeeping, basic accounting for corporations and small business firms, and analysis of financial statements.

Legal History. First semester; lectures three hours; three credits. Mr. Swindler.

[1]Federal Income Tax Law and the Federal Taxation course can be taken only in the alternative and credit for both will not be allowed.

Developments prior to the English common law; historical evolution of common law within the English political system; significance of the works of Bracton, Fortescue, Coke and Blackstone; "reception" of the common law in the New World; influence of American constitutional systems upon legal institutions; significance of the work of Kent, Story and Field; factors influencing reform and restatement of the law in the nineteenth and twentieth centuries. (Not offered 1964-1965).

Legal Philosophy. First semester; lectures three hours; three credits. Mr. Phelps.

Legal institutions; the general theory of law, law and the social sciences, law and general philosophy. (Not offered 1964-1965.)

Legal Profession. Second semester; lectures two hours; two credits. Mr. Swindler.

The organized bar in England and America; general problems of judicial organization and administration; ethical principles governing office practice and trial practice; relationships with clients; relationships with lawyers and non-lawyers in practice; special problems of corporation counsel; problems of state's attorneys; public service responsibilities of lawyers.

Legal Research. Any semester; hours to be arranged; credit according to work done.

With the approval of the Faculty and to a limited degree, topics in legal research may be substituted for formal courses.

Legal Writing. Second semester; lectures two hours; two credits. Mr. Phelps.

The use of law books, the analysis and head-noting of cases, the preparation of legal memoranda and the commoner types of pleading and other legal documents.

Legislation. First semester; lectures two hours; two credits. Mr. Swindler.

Organization and operation of legislative bodies, enactment of measures, amendments, revision and repeal, interpretation of statutes, canons of construction, context, punctuation, use of

extrinsic aids such as legislative history and committee reports, drafting of statutes, ordinances and administrative regulations.

Municipal Corporations. Second semester; lectures three hours; three credits. Mr. Swindler.

Origin, nature and powers of local government units; state-local and Federal-local relationships; property rights of municipal corporations and municipal corporations' rights over private property; zoning and land use controls; condemnation procedures; urban redevelopment; controls of streets and highways, including limitations of access to abutting property.

Negotiable Instruments. Second semester; lectures three hours; three credits. Mr. Woodbridge.

The concept of negotiability and the requirements therefor, transfer, the holder in due course, equities and defenses, liability of parties, discharge, together with a brief survey of suretyship.

Preparation of Tax Forms. Second semester; lectures two hours; two credits. Mr. Atkeson.

The pattern and content of all major types of Federal tax forms, including all required of business in the payroll and excise tax fields; the application of the forms to various personal and commercial situations; and, problems requiring return preparation as a supplement to the course in Federal Income Tax Law.

Property I. First semester; lectures four hours; four credits. Mr. Woodbridge.

Acquisition of title to personalty, problems in possession, gifts of personalty, estates in land, concurrent ownership, introduction to future interests.

Property II. Second semester; lectures three hours; three credits. Mr. Anderson.

Modern land transaction, recording acts, methods of controlling the use of land, easements and licenses, and rights incident to land ownership.

Sales. Second semester; lectures two hours; two credits. Mr. Curtis.

Express warranties, implied warranties of title and quality, passage of title, risk of loss, documents of title, and remedies of buyer and seller; common law, Uniform Commercial Code, and Uniform Sales Act treatment of the issues is compared.

State and Local Taxation. Second semester; lectures three hours; three credits. Mr. Curtis.

Limitations under the commerce, due process and equal protection clauses of the Federal Constitution; state and local franchise, income, sales, property and inheritance taxes are considered with some emphasis on those of Virginia.

Survey of Tax Literature. First semester; lectures three hours; three credits. Mr. Atkeson.

The historical development of tax theory and policy; the nature and sources of current tax law; the proper use of published materials in the consideration of tax matters; and, a familiarization with the work of modern writers in the field of taxation.

Tax Administration and Procedure. First semester; lectures three hours; three credits. Mr. Atkeson.

Statutory procedures as enacted in Subtitle F of the Internal Revenue Code of 1964; regulations and processes issued under the authority of Subtitle F; organizational and operational aspects of the Internal Revenue Service; and, procedures to be followed by taxpayers and their representatives in the audit and settlement of tax matters prior to court litigation.

Tax Research. Either semester; conferences to be arranged; credit according to work done. Mr. Atkeson.

Experiments in tax law and regulations drafting; preparation of papers by students on matters of current significance in the tax field. (This course is open only to candidates for the Master's degree.)

Torts. Second semester; lectures four hours; four credits. Mr. Woodbridge.

The concept of tort liability; assault and battery, false imprisonment, trespass to land and personalty, negligence, deceit, defamation, malicious prosecution, trover and conversion.

Trial and Appellate Practice. First semester; lectures three hours; three credits. Mr. Whyte.

Procedural aspects of trials and appeals of civil cases, trial of events in the community or on campus having the elements of a law suit, preparation and argument of moot cases on the appellate level.

Trusts and Estates. First semester; lectures four hours; four credits. Mr. Stason.

Testate and intestate succession; preparation and execution of wills and trusts; administration of estates; time rules and the use of intervivos and testamentary trusts; charitable trusts.

Virginia Procedure. Second semester; lectures three hours; three credits. Mr. Phelps.

Study of the law rules concerning the notice of motion for judgment, response, pleas in abatement, grounds of defense, counter-claim, reply, summary judgment, pre-trial procedure, depositions and finality of judgment; equity rules concerning the bill of complaint, response, replication, pleas in abatement, cross-bill, intervenors, finality of decrees and injunctions.

THE FOLLOWING COURSES, ALTHOUGH TAUGHT BY MEMBERS OF THE LAW FACULTY, ARE DESIGNED FOR THE COLLEGE UNDERGRADUATE AND DO NOT CARRY LAW CREDIT.

Business Law I. First semester; lectures three hours; three credits. Mr. Fischer.

A study of the more important aspects of the law of contracts, agency and negotiable instruments. Excerpts from selected statutes, textual matter, problems and cases will be used as a basis for discussion and analysis.

Business Law II. Second semester; lectures three hours; three credits. Prerequisite: Business Law I. Mr. Fischer.

Continuation of Business Law I. Topics studied are partnerships, corporations, property, sales, security transactions, surety-

ship, insurance, trusts and estates, business torts, trade regulations and labor law.

Introduction to Law. Second semester; lectures two hours; two credits. Mr. Whyte.

This course explains the nature and functions of law in society as processes resolving civil and criminal disputes, maintaining historical continuity and doctrinal consistency, protecting voluntary agreements and resolving acute social conflicts. Examples from criminal, tort, contract and labor law illustrate these processes. The student is also introduced to Federal and state court structures through which these processes are conducted and becomes familiar with the nomenclature of law.

THE DEGREE OF MASTER OF LAW AND TAXATION

Objectives

The program leading to the Master of Law and Taxation degree, the first of its kind to be offered by a college or university, is designed to fill a need for competently trained persons to serve the nation in any capacity in which a thorough comprehension of all phases of taxation is an essential requirement. In the present complex status of our tax law it requires joint consideration by a lawyer, an accountant, an economist, a political scientist, and an expert in business management in order to analyze properly all aspects of a tax matter. While the program does not presume to accomplish expertness in each of these fields, it is intended to equip the student with fundamental groundwork in all and as much of advanced study in each as relates directly to the field of taxation. This required foundation in the related fields, coupled with the twenty-five semester hours of specialized tax study, is designed to provide intensive training in tax law and ability to comprehend all of its diverse facets.

Preparation and Programs of Study

The Bachelor of Arts, Bachelor of Civil Law, and Master of Law and Taxation degrees may be undertaken in seven years, in which the requirements for the first two degrees are completed in a six-year combined arts and law program and the seventh year devoted to the specialized study of tax law. In addition to the

courses required to be completed for the arts and general law degrees, the following courses are included by students in the taxation program, either as electives or in pursuing their field of concentration in their undergraduate work:

Mathematics: six semester hours credit in college mathematics.

Business Administration: *Financial Management* (Bus. 323), and a minimum of twenty-four semester hours credit in courses in Accounting.

Economics: *Principles of Economics* (Econ. 201-2), *Money and Banking* (Econ. 301-2), *Principles and Methods of Statistics* (Econ. 331), *Public Finance* (Econ. 421), *Fiscal Policy* (Econ. 422), *Government and Business Enterprise* (Econ. 426), *International Trade and Policies* (Econ. 416), and either *Seminar in Economics* (Econ. 434) or *Seminar in Business Research* (Bus. 430), or the equivalent in credit hours and content of these courses if the baccalaureate degree was earned at a college other than William and Mary.

Degree Requirements

The specialized study of tax law is undertaken by the student in his graduate year following the completion of the requirements for the general law degree. It comprises fifteen semester hours' study in each of two semesters of the courses described below. Such of these courses or their equivalents that the student may have completed in his general law program may be omitted, and, in that event, such of the required courses in Business Administration and Economics as were not completed by the student in his undergraduate study, or other law courses offered by the Marshall-Wythe School of Law, may be taken in their place.

Students holding an academic baccalaureate degree and a bachelor of laws degree from an institution or institutions of approved standing, inclusive of the prerequisite courses in Business Administration and Economics, who have been in residence in the Law School for at least one academic year thereafter, who have completed the prescribed graduate work in tax law within a period not exceeding two years with a quality point average of at least 2.0 (B), and who have demonstrated their ethical fitness, will receive the degree of Master of Law and Taxation.

Program for Combined Coures

Leading to A.B. in Business Administration (Accounting) in four years, B.C.L. in six years, with preparation for both Bar and C.P.A. Examinations, and Master of Law and Taxation in seven years.

First Year

	1st Sem.	*2nd Sem.*
Grammar, Composition and Literature (Eng. 101-2)	3	3
Foreign Language	4	4
Mathematics (Math. 103-4)	3	3
Science	5	5
Physical Education	1	1
	16	16

Second Year

English Literature (Eng. 201-2) or Humanities 201-2	3	3
Foreign Language	3	3
Principles of Accounting (Bus. 201-2)	3	3
Principles of Economics (Econ. 201-2)	3	3
Introduction to Government and Politics (Govt. 201-2)	3	3
Principles of Psychology (Psych. 201)	3	—
Physical Education[1]	—	1
	18	16

Third Year

First Semester	*Credits*	*Second Semester*	*Credits*
Intermediate Accounting (Bus. 301)	3	Intermediate Accounting (Bus. 302)	3
Cost Accounting (Bus. 303)	4	Human Relations in Administration (Bus. 316)	3
Fundamentals of Marketing (Bus. 311)	3	Financial Management (Bus. 323)	3
Principles and Methods of Statistics (Econ. 331)	3	Auditing (Bus. 304)	3
Money and Banking (Econ. 301)	3	Money and Banking (Econ. 302)	3
Physical Education[1]	1	International Trade and Policies (Econ. 416)	3
	17		18

[1]Petition must be filed either to defer one hour of Physical Education until first semester of junior year or to take nineteen hours in first semester of sophomore year.

FOURTH YEAR

First Semester	*Credits*	*Second Semester*	*Credits*
Advanced Accounting (Bus. 401)	3	Advanced Accounting (Bus. 402)	3
Civil Procedure	5	Business Policy (Bus. 416)	3
Contracts	4	Seminar in Accounting (Bus. 407)	3
Property I	4	Federal Taxation	3
		Negotiable Instruments	3
		Sales	2
	16		17

FIFTH YEAR

First Semester	*Credits*	*Second Semester*	*Credits*
Agency	2	Constitutional Law	4
Appellate Briefing	1	Criminal Law	3
Business Associations	4	Family Law	2
Evidence	3	Legal Writing	2
Trusts and Estates	4	Property II	3
Law Electives	3	Torts	4
	17		18

SIXTH YEAR

First Semester	*Credits*	*Second Semester*	*Credits*
Law Electives	17	Conflict of Laws	3
		Creditors' Rights	4
		Legal Profession	2
		Law Electives	8
	17		17

B.C.L Degree

SEVENTH YEAR

First Semester	*Credits*	*Second Semester*	*Credits*
Public Finance (Econ. 421)	3	Fiscal Policy (Econ. 422)	3
Estate and Gift Taxation	3	Advanced Income Taxation	4
Survey of Tax Literature	3	Preparation of Tax Forms	2
Tax Administration and Procedure	3	Adjective Tax Law	2
Tax Research	3	State and Local Taxation	3
		Tax Research	1
	15		15

Master of Law and Taxation Degree

The School Of Marine Science

FACULTY

William Jennings Hargis, Jr., A.B., M.A., Ph.D., *Dean and Professor of Marine Science*

Jay Donald Andrews, B.S., M.S., Ph.D., *Professor of Marine Science*

Morris Leroy Brehmer, B.S., M.S., Ph.D., *Professor of Marine Science*

Edwin Bibb Joseph, B.S., M.S., Ph.D., *Professor of Marine Science*

Willard Abraham Van Engel, Ph.B., Ph.M., *Professor of Marine Science*

John Langille Wood, B.S., M.S., Ph.D., *Professor of Marine Science*

Robert E. Lee Black, A.B., Ph.D., *Associate Professor of Marine Science and Biology*

William Jackson Davis, B.S., Ph.D., *Associate Professor of Marine Science*

Dexter Stearns Haven, B.S., M.S., *Associate Professor of Marine Science*

George Moskovits, A.B., M.S., Ph.D., *Associate Professor of Marine Science*

Maynard M. Nichols, B.S., M.S., Ph.D., *Associate Professor of Marine Science*

Marvin Leroy Wass, B.S., M.S., Ph.D., *Associate Professor of Marine Science*

Robert Asbury Woodmansee, B.S., M.S., Ph.D., *Associate Professor of Marine Science*

Robert Sydnor Bailey, B.S., M.S., *Assistant Professor of Marine Science*

John Judson Norcross, B.A., M.S., *Assistant Professor of Marine Science*

Langley Harriss Wood, B.S., M.A., *Assistant Professor of Marine Science*

Dean Paul Owens, B.A., M.S., *Instructor in Marine Science*

Junius Ernest Warinner III, B.S., M.A., *Instructor in Marine Science*

Evelyn Clare Wells, B.S., M.S., *Marine Science Librarian*

Associate Members

Kenneth F. Bick, B.S., M.S., Ph.D., *Associate Professor of Geology*

Mitchell A. Byrd, B.S., M.S., Ph.D., *Professor of Biology and Chairman, Department of Biology*

Robert L. Ellison, A.B., Ph.D., *Professor of Geology,* University of Virginia

Philip Wyman Harrison, B.S., M.S., Ph.D., *Supervisory Oceanographer,* U.S.C.&G.S., Washington, D.C.

Willis G. Hewatt, B.S., M.S., Ph.D., *Professor of Biology and Geology and Chairman, Department of Biology and Geology,* Texas Christian University

Sewell H. Hopkins, B.S., M.A., Ph.D., *Professor of Biology,* Agricultural and Mechanical College of Texas

Harold J. Humm, B.S., M.S., Ph.D., *Associate Professor of Botany,* Duke University

Bruce W. Nelson, A.B., M.S., Ph.D., *Professor of Geology,* University of South Carolina

Robert A. Pedigo, B.S., M.S., Ph.D., *Associate Professor of Biology*

William W. Scott, A.B., M.S., Ph.D., *Professor of Botany,* Virginia Polytechnic Institute

HISTORY

Virginia's interest in and concern with the sea, marine exploration, and marine life dates from earliest Colonial times. Captain John Smith wrote of his nautical explorations and made records of the marine life his group saw on its travels. In 1737 William Byrd's description of the mid-Atlantic seaboard colonies contained discussions of various species of marine fish and shellfish and a brief description of the Chesapeake Bay and its major tributaries.

Later in the eighteenth century Thomas Jefferson, a Visitor of William and Mary College, and Corresponding Member of the Philadelphia Academy of Natural Sciences, collected marine fossils and sent them to the Academy where they can be seen today. Jefferson, member and one-time President of the American Philosophical Society, was also interested in meteorology and geology and among other things concerned himself with such subjects as river currents, Mediterranean tides, navigation, distillation of fresh from sea water and use of fish oil to preserve pilings.

Marine Science in Virginia languished until the mid-1800's when Commondore Matthew Fontaine Maury, of Spotsylvania, conducted his important studies in physical oceanography and thus established this science on a sound footing. Maury's "Physical Geography of the Sea" published in 1855 is one of the classics of oceanography. Lieutenant John Mercer Brooke, another scion of the Old Dominion, who served at the old U. S. Naval Observatory with Maury, developed a deep-sea sounding apparatus which was used to study the nature of the bottom as well as water depths in the deep sea.

From Maury's time until 1940 little local effort was expended in marine science, when at the urging of Dr. Donald W. Davis, Professor of Biology, and Dr. John Stuart Bryan, President of the College of William and Mary, and certain other academicians and members of the seafood industry, the Commonwealth established its permanent marine laboratory, then called the Virginia Fisheries Laboratory.

Laboratories were first located on the campus at Williamsburg with a field station at Yorktown, and later the entire organization moved to rented quarters at Yorktown, where the Institute grew very slowly until 1950. In that year the first permanent building,

now called Maury Hall, was erected on the promontory at Gloucester Point, across the York River from Yorktown. Since 1950 growth of research activities, facilities and personnel has been rapid, especially since 1955.

By establishing the laboratory "under the control and supervision of the College of William and Mary," the General Assembly recognized the necessity for its association with an academic institution and signified its interest in training marine scientists. Teaching and advising advanced undergraduate and graduate students has been an activity of laboratory scientists since 1940.

The first Master's candidate was awarded his M.A. degree in 1943. Due to the slowdown resulting from World War II only two other students, both females, completed work in the years 1944-1949. Since 1950 twenty-two have taken degrees. Increased interest in marine science resulted in 1960 in enrollment of twelve graduate students. In 1961 sixteen were enrolled and in 1962, twenty. Nineteen sixty-three and 1964 have seen twenty-three and twenty-one respectively.

From 1940 the academic program of the Institute was conducted as part of the Department of Biology. In 1959 the marine training program was established by the Board of Visitors of the College of William and Mary as the Department of Marine Science. In recognition of the growing importance of marine science and the improving capability of the Department to offer advanced courses, in 1961 the Board of Visitors established the marine training program as the School of Marine Science of the College of William and Mary.

The General Assembly in 1962 changed the name, Virginia Fisheries Laboratory to Virginia Institute of Marine Science; reconstituted it as an independent agency; and provided for continued educational offering in Marine Science by permitting proper affiliation with one or more accredited institutions of higher learning.

In 1964 the long-awaited doctoral program in Marine Science was inaugurated, thus completing the degree offerings in this area.

FACILITIES

The Institute is situated at Gloucester Point, on the York River thirteen miles from the Williamsburg campus. The Institute was established (as the Virginia Fisheries Laboratory) in 1940 to

pursue research and educational activities relative to tidal waters, *i.e.,* Chesapeake Bay and its tributaries and adjacent regions of the Atlantic Ocean. Though in the beginning its research efforts were directed almost solely toward the commercially important marine species and hydrography, its interest and area of responsibility has continually grown to cover the broad spectrum of inshore oceanography as well as fisheries biology. As the Commonwealth's only marine research and training institution, the Institute is actually a general marine laboratory conducting oceanographic inquiries in the spirit and tradition of Matthew Fontaine Maury (Pathfinder of the Seas), a native Virginian and America's greatest marine scientist.

Through the offerings of the School of Marine Science, a joint venture of the College and the Institute, an unusual opportunity is afforded students of Marine Science and Fisheries Biology to take advanced undergraduate and graduate training at an active, year-round center of marine research.

Because it is located on an important estuary with easy access to Chesapeake Bay and the nearby Atlantic, the Institute is admirably situated to conduct research and teaching in marine, estuarine, and freshwater biology and general hydrography. The branch laboratory at Wachapreague, Virginia, re-established in 1959, offers access to the embayments, salt marshes, and barrier beaches of Virginia's Eastern Shore.

The main laboratory, Matthew Fontaine Maury Hall, constructed in 1950, is equipped with running sea water, compressed air, gas, a cold room, chemistry laboratory, instrument laboratory, and an extensive and growing reference library. Brooke Hall (named after Lt. John Mercer Brooke, Virginia oceanographer and inventor of the Brooke "deep-sea sounding apparatus") completed in 1958, contains living accommodations for students and laboratory facilities. Davis Hall was built in 1961 to house the Department of Microbiology-Pathology. Its name honors Dr. Donald W. Davis, former Professor of Biology at William and Mary, who was most instrumental in bringing about establishment of this facility. A separate salt water building provides additional experimental facilities. The specially designed 55-foot diesel-powered research vessel PATHFINDER is equipped with radiotelephone and modern biological and oceanographic instruments. The converted ferry, RV LANGLEY, serves as floating

laboratory for work in Chesapeake Bay. Several auxiliary and outboard motorboats, and rowboats are available.

PROGRAM

The degrees offered by the College of William and Mary are the Master of Arts and Doctor of Philosophy in Marine Science. Majors in Biological Oceanography (Marine Biology), General Oceanography and Fisheries Biology are available. Others are planned. Though the program is primarily for graduate students, certain courses are open to advanced undergraduates. At the present time the curriculum leading to the Master of Arts in Marine Science comprises a number of formal courses, a methods course, two problems courses, one seminar course, and a thesis course. The curriculum for the Doctor of Philosophy Degree consists of such formal courses in Marine Science and cognate fields as are necessary to the student's interests and program.

The program of the School of Marine Science is primarily intended for the advanced student who wishes to specialize in Marine Science. Majors are available in Biological Oceanography, General Oceanography, and Fisheries Biology. The graduate program, leading to the Master's degree in Marine Science, includes instruction in Chemical, Geological and Physical Oceanography, Marine Ecology, Biometry, Population Dynamics, Seminar in Marine Science, Taxonomic Methods, Phylogeny, and Research. For the doctorate research facilities and courses plus such formal courses as are necessary to produce competent students of Marine Science are provided.

In summer qualified undergraduate students may take advanced training in Invertebrate Ecology, Marine Science, Physiology, and other subjects as scheduled. Special summer research courses in Marine Science for qualified science teachers and undergraduate biology majors are offered as funds are available. Financial assistance is generally available to qualified graduate and undergraduate students and to participating teachers.

As in most marine institutions, activities are accelerated in the summer. From four to six scientists are added to the research and teaching staff. In addition to regular academic courses offered, the Institute has recently been associated with the National Science Foundation in two valuable summer training programs. Under one, college teachers are brought to Gloucester Point. In

the other, ten students are brought to the Institute in the Undergraduate Research Participation Program. In both groups the enrollees participate in research projects. An additional ten to fifteen students are supported by the Summer Aide Program which is designed to acquaint them with marine research activities and to encourage their interests.

Because the *entire* organization is marine-oriented and all of the faculty is heavily engaged in research, graduate and undergraduate students have a better than usual opportunity to become intimately familiar with the field. This advantage is increased by the fact that the student's entire training program is carried out on the seacoast. Time is not lost in traveling from an inland campus to the sea; and the sea, itself, is a constant classroom companion.

PREPARATORY STUDIES

It is recommended that students who are seriously interested in Marine Science as a profession consult with the Dean of the School as early in their college careers as possible regarding an academic program to be followed. The student interested in Marine Biology (Biological Oceanography) or Fisheries Biology should plan to take such subjects as Genetics, Comparative Anatomy of Vertebrates, Comparative Anatomy of Invertebrates, Histology, Embryology, Systematic Botany, Microbiology; several courses in Chemistry, *i.e.,* General Qualitative and Quantitative, Organic and, if possible, Biochemistry; and General Physics. College Mathematics through Trigonometry is very important. The Calculus is recommended.

The prospective general oceanographer should have an undergraduate major in Physics, Meteorology, Biology, Chemistry or Geology. Students of the last three subjects should have taken Fluid Mechanics or Gas Dynamics or similar subjects and have Mathematics through the Calculus.

In all disciplines an overall grade average of at least C+, with B (2.0 in a 3 point system) in the major field is desirable.

ADMISSION REQUIREMENTS

Though the courses offered by the School are primarily for graduate students, advanced undergraduates (juniors and seniors) may participate. For instance, Biology, Chemistry and Physics

majors may enroll in suitable 400 level courses. An undergraduate major in Chemistry, Geology, Physics, or Psychology may work on a marine problem in his field of specialization. Consent of the Chairman of the student's major department is required to take problems courses in Marine Science. Summer courses offered by the School are available to all qualified students from William and Mary schools and colleges as well as other institutions of higher learning.

Graduate students will be admitted either to regular graduate or to unclassified graduate status. All applicants for admission to regular graduate status shall be cleared through the central admissions office in cooperation with the office of the Dean of Admissions of the College at Williamsburg and be subject to the approval of the Committee on Graduate Studies of the School of Marine Science.

An applicant for admission to graduate study must have completed the requirements for a Bachelor's degree in an institution of approved standing. Majors in the natural sciences are preferred. He must have achieved a minimum quality grade-point average of 1.5 (based on a 3 point system) or its equivalent. Applicants with higher grade-point averages will be given preference.

Applicants for admission to regular graduate status are required to take Graduate Record Examination. This must include the Aptitude as well as the Advanced portions of the test.

Inquiries should be addressed to the Dean of the School of Marine Science, Gloucester Point, Virginia.

DEGREE REQUIREMENTS

Degree of Master of Arts in Marine Science

The graduate program of study in Marine Science is designed for students who wish to continue systematic professional study beyond the Bachelor's degree.

The steps to be accomplished and requirements for the Master of Arts degree in Marine Science are as follows:

1. The Dean of the School, or a major professor chosen by mutual agreement of the student, the professor and the Dean, approves the student's program.

2. A minimum residence period of one calendar year is required.

3. At least twenty-four semester credits of advanced work, of which at least one-half must have been earned in courses numbered 500 or above, with a grade average of B or better, are required for the M.A. degree. Grades below B in the major field may not be applied toward the credit-hour requirement. No credit will be given for any grade below C. Receipt of grades below C generally presages dismissal from the School.

4 As soon after admission to candidacy as possible the student must select a major professor and a research project.

Students become candidates for the Master's degree upon the recommendation of the Dean and the approval of the Graduate Studies Committee after completion of a minimum of one semester of graduate work.

5. If the student has not successfully completed the second year of at least one pertinent foreign language (German, French or Russian are usually recommended) during his undergraduate training he will be required to do so or to pass a reading test during his course of study in the School.

6. The student must present a thesis approved by his major professor, the Dean and his Committee.

7. A comprehensive examination, written or oral, covering the entire field of study and an oral defense of the thesis are required.

8. All requirements for the degree must be completed within six calendar years after commencing graduate study.

Degree of Doctor of Philosophy in Marine Science

Admission requirements are the same as for the Master's degree.

The steps to be accomplished and requirements for the degree of Doctor of Philosophy in Marine Science are:

1. The student's program must be approved by a duly appointed and properly constituted guidance committee especially established for that student.



A Scene from The Time of Your Life, William and Mary Theater



Posting Posters in Front of the Library

2. A minimum of three years of graduate study, at least one of which must be in residence at the College of William and Mary either at the Williamsburg campus or at Gloucester Point or both. The student must register for formal courses or research or thesis courses for at least three semesters.

3. An application for admission to candidacy for the doctoral degree must be filed with the Dean of the School of Marine Science at least one full semester prior to the date on which the degree is to be conferred.

4. In order to obtain recommendation for candidacy, the application must be approved by a majority of the student's program committee. Prior to application the student must have:

   a. Begun dissertation investigations on a research project approved by his committee and the Dean.

   b. Completed a comprehensive qualifying examination to demonstrate factual and theoretical knowledge in Marine Science.

   c. Satisfied the Dean of the School of Marine Science that he has a reading knowledge of two approved foreign languages which may be French or German, or Russian or some other acceptable one.

5. The dissertation submitted for the degree must be approved and accepted at least three weeks before the date of convocation.

6. A final examination consisting of an oral and/or written examination in defense of the dissertation must be satisfactorily accomplished. (A comprehensive final examination either oral or written, of the student's major and minor fields may also be required.)

7. All graduate work in the Department of Marine Science must be accomplished within a six-year period beginning with formal acceptance of the student. In exceptional cases, extensions may be approved.

8. All dissertations will be published by having a master microfilm negative made from each original dissertation. These negatives will be stored and serviced by "University Microfilms" of Ann Arbor, Michigan, and positive microfilms, or enlarged prints, will be produced to order at the standard rate, for other scholars who desire access to any dissertation.

   Each dissertation, when submitted, must be accompanied by two copies of an abstract of not more than 600 words. This abstract, or summary, will be published in Microfilm Abstracts, for national distribution. No dissertation will be accepted without this abstract.

   A fee of $25 for the above services must be paid by the candidate for the Doctor of Philosophy degree before it is conferred.

   All dissertation research should be planned, conducted and reported with a view toward publication of the results in a legitimate scientific journal.

CURRICULUM

Occasionally, approved marine science courses are offered at Williamsburg, but most are conducted at the marine laboratory at Gloucester Point. Accordingly, students commuting between campuses must schedule classes so as to allow adequate time between them. Usually thirty minutes are required to make the passage.

DESCRIPTION OF COURSES

*401. *Introductory Physical Oceanography.* First semester; three hours lecture, four hours laboratory and cruise; five credits. Prerequisites: Chemistry 101, 102, Mathematics 101, 102, Physics 101, 102. Mr. Nichols and Staff.

Physical properties of sea water, interaction with the atmosphere, movement of water masses, and dynamics of currents, waves and tides. Special emphasis in the laboratory will be devoted to techniques and instruments employed in biological chemical, geological and physical oceanography.

†403. *Problems in Marine Science.* All semesters; hours to be arranged; credit according to performance, maximum four credits. STAFFS of the SCHOOL OF MARINE SCIENCE and COOPERATING NATURAL SCIENCE DEPARTMENTS.

Supervised projects selected to suit the needs of the advanced undergraduate student. Projects to be chosen in consultation with the head of the student's major department, the supervising professor and the Dean of the School of Marine Science. Acceptable topic outlines and terminal project reports are required.

†406. *Marine Science.* Summer session and extension; lectures, laboratory, and field trips twenty hours per week for eight weeks; five credits. STAFF.

A general introduction to marine science including biological, chemical, geological and physical oceanography.

*407. *Biometry I.* Second semester; lecture and laboratory six hours; four credits. MR. NORCROSS.

Application of biometrical techniques to analysis of biological data. Enumeration statistics, measures of central tendency and dispersion. Analysis of variance and regression analysis.

†410. *Marine and Freshwater Invertebrates.* Summer Session; lectures, laboratory and field trips twenty hours per week for eight weeks; five credits. STAFF.

Classification and identification, adaptation, ecology, life histories. Local marine, estuarine and freshwater forms emphasized.

†412. *Marine Botany.* Summer session; lectures, laboratory and field trips twenty hours per week for eight weeks; five credits. STAFF.

A general introduction to the ecology and systematics of algae and spermatophytes encountered in the marine environment.

*415. *Marine Botany—The Fungi.* Summer Session; lectures, laboratory and fields trips, twenty hours per week for eight weeks; five credits. STAFF.

An introduction to the ecology and systematics of the fungi and fungus-like plants encountered in the marine environment.

†501. *Marine Science Seminar.* All semesters; hours to be arranged; one credit each semester; maximum three credits. STAFF.

The organization and presentation of scientific data. Oral discussion and written outlines and critiques of selected seminar topics are required of all students in the department.

*502. *Biological Oceanography.* First semester; lectures, recitation and laboratory eight hours; five credits. STAFF.

Studies of the interactions of biological, chemical and physical variables of the marine environment at the individual, population and community levels; occurrence and distribution of marine organisms. Development of the marine ecosystem as a generalized open system.

†503. *Advanced Problems in Marine Science.* All semesters; hours to be arranged; credit according to performance; maximum four credits. STAFF.

Supervised research projects selected to suit the needs of the graduate student. Projects to be chosen in consultation with the student's major professor and the Dean of the School. Acceptable research outlines and project reports are required. Training in specific areas such as marine parasitology, epidemiology and pathology of marine organisms, marine productivity, physiology of algae, experimental design, and other subjects which staff members are qualified to teach is also offered.

*504. *Biology of Selected Marine Organisms.* Second semester, alternate years; lectures and laboratory eight hours; five credits. MR. ANDREWS, MR. VAN ENGEL and MR. HAVEN.

Detailed, advanced study of special groups of marine organisms, such as Mollusca or Crustacea, which are within the special interests and training of particular staff members. Emphasis on organisms of economic importance such as *Balanus, Callinectes, Crassostrea.*

*505. *Radiobiology.* First semester, alternate years; lectures and laboratory six hours; four credits. Mr. Brehmer.

A study of the principles of tracer techniques procedures for radio-assay, limitations of tracer methodology, hazards, safe handling procedures with particular emphasis on the use of isotopes in marine research.

*506. *Biology of Plankton.* Second semester, alternate years; lectures, recitation and laboratory eight hours; five credits. Staff.

The structure and dynamics of estuarine plankton communities, with emphasis on the local biota; classification, morphology and ecology of major constituents; planktological methods.

*507. *Marine Microbiology.* First semester, alternate years; lectures and laboratories eight hours; five credits. Prerequisites: Biology 301, 302, Chemistry 301, 302. Mr. Moskovits.

Morphology, physiology, ecology, taxonomy, methods of isolation, cultivation and identification of aquatic microorganisms with emphasis on those from the marine environment.

*508. *Ichthyology.* Second semester, alternate years; lectures, laboratory and field trips nine hours; five credits. Prerequisites: 13 credits in biology including Comparative Anatomy of Vertebrates. Mr. Joseph.

A detailed treatment of the biology of fishes including phylogeny and classification, functional morphology, speciation, respiration and reproduction.

*509. *Systematics and Phylogeny.* First semester, alternate years; three hours of lecture and recitation; three credits. Mr. Hargis.

General consideration of the principles and theories of systematics and phylogeny. Techniques of taxonomy, studies of the historical development of species and higher biological units.

*510. *Pollution Biology.* Second semester, alternate years; lecture and laboratory six hours; four credits. Mr. Brehmer.

Study of the various types of pollutants, domestic and industrial wastes, soils, insecticides and radioactive materials and their effects on the marine environment.

*511. *Geological Oceanography.* First semester, alternate years; three hours lecture and cruise; three credits. Prerequisites: General or Physical Geology. Mr. Nichols and Staff.

Topography and structure of the sea floor, origin of the ocean basins, coral reefs, continental shelves, submarine canyons, depositional environments and sedimentary processes.

*512. *Parasites of Marine Organisms.* Second semester, alternate years; lecture and laboratory, six hours; four credits. Mr. Hargis and Staff.

Ecology, morphology, systematics and physiology of symbiotes (parasites) occurring in or on marine organisms. Principles of epidemiology and effects of parasites on their host populations will be discussed.

*513. *Biogeography.* First semester, alternate years; lecture three hours; three credits. Mr. Wass.

A survey of biogeographic regions, their geological origin and the paleo and neo distribution of representative groups of organisms. Emphasis on marine environments.

*514. *Littoral Processes.* Second semester, alternate years; lecture and field work five hours; three credits. Prerequisite: Marine Science 401 and consent of instructor. Staff.

Physical and chemical processes in the nearshore environments including littoral waves, tides, currents, transportation of sediments and the formation of sedimentary features.

*515. *Embryology and Anatomy of Marine Invertebrates.* Second semester, alternate years; lectures and laboratory eight hours; five credits. Prerequisites: 13 credits in Biology. Mr. Black.

The comparative embryology and adult anatomy of local representatives of all major phyla will be considered. Emphasis

will be placed on the evolutionary relationships between groups. Experiments to illustrate possible mechanisms of fertilization, cleavage and organ differentiation will be performed.

*516. *Advanced Physical Oceanography.* Second semester, alternate years; lecture three hours; three credits. Prerequisites: Marine Science 401, Mathematics 201, 202, 203, 302, Physics 207, 208, 302. STAFF.

Dynamics of ocean currents, turbulence, wind currents, waves, water masses and circulation of the ocean.

*517. *Behavior of Marine Organisms.* First semester, alternate years; lecture and laboratory six hours; four credits. Prerequisites: Biology 101, 102, Marine Science 401, 402. MR. LANGLEY WOOD.

A survey of physiological and ecological correlates of behavior, with emphasis on marine organisms and their environment; a critical review of behavioral theory; electrophysiological demonstrations of the interaction of sensory processes and environmental stimuli.

*518. *Marine Fishery Science.* Second semester; lecture laboratory and field trips eight hours; five credits. STAFF.

Principles and techniques; including the theory of fishing, age and growth, methods of defining stocks, catch statistics, description of world fisheries, and life histories of selected species.

*519. *Biometry II.* Second semester; lecture and laboratory six hours; four credits. Prerequisite: Biometry I. MR. VAN ENGEL.

Correlation, covariance analysis, multiple regression, and curvilinear regression.

*520. *Physiology of Marine Organisms.* Second semester, alternate years; lectures, laboratory and field trips seven hours; five credits. Prerequisites: Biology 101, 102, Chemistry 301, 302. MR. LANGLEY WOOD or MR. BLACK.

Major physiological processes will be considered. Special attention will be given to those processes in which evolutionary trends are apparent.

*521. *Chemical Oceanography.* First semester, alternate years; lecture three hours, laboratory and cruise two hours; four credits. Prerequisites: Chemistry 101, 102, 201, 202 or equivalent, Mathematics 101, 102 or 103, 104, Physics 102. STAFF.

Introductory study of chemical processes in marine waters including composition of sea water, nutrients, carbon dioxide systems.

†560. *Thesis.* All semesters; hours to be arranged.

Original research in Marine Science or Fisheries Biology. Project to be chosen in consultation with the student's major professor and the Dean of the School.

Mathematics

Professor Reynolds *(Head of the Department)*. Acting Professor Elliott. Associate Professors Cato and Weiler. Assistant Professors Conner, Easler, Kutner, Lawrence and Turner. Instructor Withers. Lecturer Leonard.

REQUIREMENTS FOR CONCENTRATION

Concentration in Mathematics consists of 30 or more semester credits at the 200 level and above including Mathematics 201, 202, 203, 204, 302 and 307. At least 15 credits must be at the 300 and 400 level. Mathematics 103, 105-106, 475[1] and *Engineering Graphics* 201-202 may not be applied towards concentration in Mathematics.

DESCRIPTION OF COURSES

103. *Algebra-Trigonometry.* Both semesters; lectures three hours; three credits. Staff.

An integrated study of the real number system, sets, functions, graphs, equations and inequalities, systems of equations, matrices and determinants. This is followed by a study of the trigonometric functions and their properties. Recommended for science majors who have a deficiency in their training in the fundamentals.

105-106. *Fundamental Concepts of Mathematics.* Both semesters; continuous course; lecture three hours; three credits each semester. Staff.

A study of the contemporary approach to the fundamental concepts of mathematics with emphasis on the structure of the number systems. Topics included are: sets, logic, properties of the natural numbers, integers, rationals, reals and complex numbers. This continues into the second semester with the study of further topics from elementary number theory and algebra including modular arithmetic, factorization and divisibility, systems of equations, inequalities, algebraic structures, relations and functions.

[1]Math. 475 is a course designed for the in-service teacher. See Summer School or Evening College Catalogue for description.

This course is designed to give the non-science student a comprehensive look at mathematics and to give the underlying structure of the subject as it is currently being introduced into the curriculum of the public schools. It is further designed to give the prospective elementary and non-science secondary teachers the training in mathematics that is currently being recommended nationally for them.

201, 202, 203, 204. *Calculus with Analytic Geometry.* Both semesters. Continuous course; lectures three hours; three credits each semester. Prerequisites: Math. 103 or its equivalent or consent of the head of the department. (Entering freshmen with good training in trigonometry are urged to begin with Math. 201.) STAFF.

201. Inequalities, absolute values and analytics through conics. Sets, ordered pairs and functions leading to limits and derivatives of algebraic and transcendental functions including applications to maxima, minima, plane motion and Law of the Mean Value. Differentials and their applications.

202. The definite integral and the Fundamental Theorem of Integral Calculus and their applications to areas, volumes, work, first moments and centroids including improper integrals and solids of revolution. Techniques of integration, parametric equations, polar coordinates and vectors.

203. Sequences and series including Taylor's and Maclaurin's series and convergence. Solid analytic geometry and partial differentiation with applications. L'Hospital's Rule.

204. Multiple, line and surface integrals, Beta and Gamma functions and Fourier series. Implicit functions and Leibnitz's rule for differentiation under the integral sign.

205. *Analytics.* Usually offered in summer; lectures three hours; three credits. Prerequisites: Math. 103 or the consent of the head of the department. STAFF.

Plane graphs in rectangular and polar coordinates presented from the vector approach. The conics, planes and surfaces, lines and curves, their tangents and normals, ruled surfaces and surfaces of revolution, guadrics and volumes.

206. *Modern Mathematics.* Usually offered in summer; lectures three hours; three credits. Prerequisites: Math. 103 or its equivalent or the consent of the head of the department. STAFF.

A study of topics of mathematics most recently developed and applied in fields including the social and biological sciences. Elementary logic, sets, probability theory, matrices, linear optima, and the theory of games. The course serves the student interested in cultural aspects whether or not a mathematics major.

302. *Differential Equations.* Both semesters; lectures three hours; three credits. Prerequisite: Math. 203 or the consent of the head of the department. STAFF.

Ordinary differential equations. Laplace Transform. Series solutions of Legendre and Bessel equations. Solution of partial differential equations by separation of variables. Applications in geometry, physics, and engineering.

304. *Probability and Statistics.* Second semester; lectures three hours; three credits. Prerequisite: Math. 203. (Math. 204 is advised.) MR. KUTNER.

Permutations and combinations. The random variable, expected value, variance and covariance. Discrete and continuous probability distributions. Generating functions. General limit theorems. Practical illustrations from various domains. Tests of hypotheses. Non-parametric methods.

306. *Numerical Analysis and Actuarial Mathematics.* First semester; lectures three hours; three credits. Prerequisite: Math. 302. (Math. 204 and 307 are advised.) MR. KUTNER.

Fundamental processes of numerical analysis. Finite differences. Interpolation, quadrature, and approximations. Introduction to programming. The content is useful in physics, engineering, and actuarial science, as well as in Mathematics.

307. *Algebra.* Both semesters; lectures three hours; three credits. Prerequisite: Math. 202 or the consent of the Head of the Department. STAFF.

The number systems. The nature of proof. Sets. Divisibility and congruences. Introduction to groups, rings, and fields.

Matrices and determinants. Applications to systems of equations and theory of equations. Recommended for prospective teachers.

308. *Geometry.* Second semester; lectures three hours; three credits. Prerequisite: Math. 302, 307 or the consent of the Head of the Department. STAFF.

Axioms and deductive reasoning. Some advanced euclidean geometry including cross ratio and inversion. Synthetic and coordinate projective geometry. Duality. Perspectivity. Conics. Recommended for prospective teachers.

403. *Intermediate Analysis.* First semester; lectures three hours; three credits. Prerequisite: Math. 203, 307. MR. LAWRENCE.

Real numbers; point sets; the Heine-Borel and Bolzano-Weierstrass theorems. Limits; continuity; and uniform continuity. Sequences and series of functions; uniform convergence. The Riemann integral. Functions of several variables.

405-406. *Complex Variables.* Continuous course; lectures three hours; three credits each semester. Prerequisites: Math. 203, 302. STAFF.

The complex plane. Functions of a complex variable. Continuity. Differentiability and the Cauchy-Riemann equations. Contour integrals. The Cauchy integral theorem and the Cauchy integral formula. The second semester continues with infinite sequences and series, Taylor and Laurent expansions, calculus of residues, evaluation of real definite integrals, analytic functions, Liouville's Theorem and other selected topics.

407-408. *Introduction to Matrices and Linear Algebra.* Continuous course; lecture three hours; three credits each semester. Prerequisites: Math. 302, 307 and consent of the Head of the Department. MR. CATO.

The first semester deals with algebra of matrices, determinants, systems of linear equations, elementary transformations, finite dimensional vector spaces, matrix polynomials, characteristic

vectors. The second semester continues with functions of matrices, Sylvester-Lagrange interpolation polynominal, systems of linear differential equations, normal forms, bilinear and quadratic forms, Hermitian matrices, orthogonal and unitary transformations, inner products, norms and applications.

410. *Special Topics.* Either semester; one, two or three hours lecture and credit, depending upon topics chosen. Prerequisite: consent of the Head of the Department. STAFF.

Topics selected from Theory of Equation, Projective Geometry, Linear Algebra, Intermediate Analysis, Applied Mathematics, etc.

412. *Introduction to Number Theory.* Either semester; lecture three hours; three credits. Prerequisites: Math. 307 or consent of the Head of the Department. MR. REYNOLDS.

An elementary course in the theory of integers, divisibility and properties of prime numbers; a study of Diophantine equations, congruences, number theoretical functions, decimal expansion of rational numbers and quadratic residues included. Recommended for prospective secondary teachers of mathematics.

430. *Numerical Methods and Computer Programming.* Lecture three hours; two credits. Second semester. Prerequisite: Math. 203 or equivalent. MR. SMITH.

Recommended for Mathematics and Physical Sciences majors. This course is designed to acquaint students with the theory and practice of computation with special reference to stored-programming techniques for high-speed electronic computers IBM 1620 and IBM 7090. Topics include: Symbolic and Automatic Programming, Problem planning, organization and functioning of computer installation, Survey of current computer applications in the field of scientific and industrial research. (This course may not be applied toward any concentration.)

Engineering Graphics 201, 202. *Engineering Drawing and Descriptive Geometry.* Continuous course; laboratory six hours; three credits each semester. MR. SMITH.

Fundamentals of Engineering Drawing and Descriptive Geometry. Orthographic projection, auxiliary views. Isometric,

oblique projection and drawing; prospective; machine parts such as screws, gears, valves, cams. Lettering. Graphic and analytic solutions of engineering and geometric problems. Intersection and development of surfaces.

MASTER OF ARTS DEGREE IN MATHEMATICS
ADMISSIONS AND REQUIREMENTS

Requirements for admission are listed on pages 76-83 of this catalogue. In addition to the general requirements for the degree of Master of Arts stated on pages 93-94 of this catalogue, candidates must meet the following requirements:

1. After consultation with the Mathematics Department, the student may be required to take undergraduate courses in which his preparation is judged inadequate.

2. The student must demonstrate a reading knowledge of French, German or Russian, in the field of mathematics, at least one semester prior to qualifying for the degree.

3. In addition to Math. 560 (Thesis), the candidate must successfully complete 24 semester credits in courses numbered above 400 including at least 12 semester credits in courses limited to graduate students (500 courses) and with a grade of B or better in each 400 level course taken for graduate credit.

4. Each graduate student shall have a faculty supervisor who will be primarily responsible for the student's choice of a thesis subject and for advising him regarding research and writing problems encountered in preparing for his thesis. All theses projects must be approved by the head of the department.

5. Each candidate must pass an oral comprehensive examination to be taken at least two weeks before regular semester examinations. This comprehensive shall be given only after the thesis has been submitted to and approved by his examining committee and only after the 24 semester credits have been completed or in the semester in which these credits will be completed.

GRADUATE COURSES

For the M.A. degree, it will be required of all candidates to take the sequence Math. 501-502 and one other of either 503-504 or 505-506.

501-502. *Modern Abstract Algebra.* Continuous course. Lectures three hours; three credits each semester. Prerequisite: Math. 307 or its equivalent. STAFF.

Semi-groups, groups, homorphisms, Sylow theorems, integral domains, rings and ideals. The second semester covers fields, Galois theory, applications to the classical construction problems, algebras.

503-504. *Analysis.* Continuous course. Lectures three hours; three credits each semester. Prerequisite: Math. 403. STAFF.

Functions of a real variable, properties of point sets, metric spaces, functions of bounded variation, Stieltjes integrals, measure theory, Lebesgue intergration. The second semester covers normed spaces, Hilbert spaces, spaces of bounded and of continuous functions, Stone-Weierstrass approximation theorem, analytic functions.

505-506. *Topology.* Continuous course. Lectures three hours; three credits each semester. STAFF.

An introduction to the theory of point sets and topological spaces, separation axioms, bases and axioms of countability, Lindelof's theorem, topological convergence, connectivity and local connectivity, components, compactness and local compactness. The second semester covers compactification, product spaces, continuous transformations, homeomorphisms, Urysohn's lemma and Tietze's theorem, metric spaces and metrization theorems.

509-510. *Applied Mathematics.* Continuous course. Lectures three hours; three credits each semester. Prerequisite: Math. 407-408. STAFF.

An introduction to Hilbert space, generalized functions, theory of distributions and Fourier transforms, Existence theorems, boundary value problems and fundamental solutions of partial differential equations with special emphasis on elliptic and hyperbolic equations. Green's functions, Cauchy problems and the Goursat problem.

551. *Readings in Algebra and Number Theory.* One to three hours either semester depending upon material covered. STAFF.

552. *Readings in Analysis I.* One to three hours either semester, depending upon material covered. STAFF.

553. *Readings in Analysis II.* One to three hours either semester, depending upon material covered. STAFF.

554. *Readings in Topology.* One to three hours either semester, depending upon material covered. STAFF.

555. *Readings in Applied Mathematics.* One to three hours either semester, depending upon material covered. STAFF.

560. *Thesis.* Hours to be arranged. STAFF.

Military Science Army

Professor Lt. Col. Hogan *(Head of the Department)*. Assistant Professors Captain Sanders, Captain Wofford and Captain Lockaby.

RESERVE OFFICERS' TRAINING CORPS

A unit of the Reserve Officers' Training Corps was established at the College of William and Mary on July 1, 1947, with an assigned mission of training students for positions of leadership in the Armed Forces in time of national emergency.

Beginning with the 1954-55 session the College broadened the scope of training from the original course designed specifically to train students in Artillery subjects to one of General Military Science. The GMS course gives the student a college level program of general military subjects, trains him in basic infantry weapons and procedure, teaches him the fundamentals of leadership, and provides him an opportunity to perfect his leadership technique by practical application.

Any male student who is a citizen of the United States, physically qualified, and not already holding a commission in any of the Armed Forces may, when he matriculates in the College, enroll in the first year basic course.[1] Those meeting the above qualifications but who have had prior military training, whether in the Armed Forces or in another college may, commensurate with the degree of such training, enroll in Military Science I through IV.[2] Freshmen and transfer students desiring to take advantage of previous military training should consult the Professor of Military Science when they matriculate in the College. Time of enrollment

[1]Students who enroll in either the basic or advanced courses will be required to complete the course in which they are enrolled in order to receive college credit for any part of the two-year period. However, in cases where a student is forced to drop from the ROTC because of physical disability or other bona fide reasons beyond his control, the Professor of Military Science may, at his discretion, recommend to the college authorities that the student be given credit for a part of or all of his completed work.

[2]For those students desiring to participate, there is a 2 year program available beginning with the summer prior to the junior year and extending through the completion of the senior year. Details available at the office of the Department of Military Science.

must be such as to place the military and academic instruction in phase with each other. Thus, freshmen only pursue MS I, sophomores, MS II, juniors, MS III, and seniors, MS IV.

Having completed satisfactorily the two year basic course or its equivalent, and having demonstrated that he possesses such traits of character and leadership ability as will justify his further training as a candidate for a commission, a student who also has an adequate academic standing becomes an eligible candidate for admission to the advanced course (MS III and MS IV). Those who complete this course will, upon graduation from the College, be given a certificate of capacity and may be commissioned as Second Lieutenant, United States Army Reserve. Outstanding ROTC cadets will be offered a commission in the Regular Army under the provisions of the Distinguished Military Student Program.

Students who enroll in the basic course are furnished standard government issue uniforms. Those who enroll in the advanced course receive tailored officer-type uniforms and accessories of commercial manufacture, which become the property of the student upon his graduation and commissioning. In addition, students who are enrolled in the advanced course become members of the Enlisted Reserve and receive a retainer of $40.00 per month. Advanced course students are required to attend a six-weeks summer camp, generally between their third and fourth years at college,[3] and they are paid during that period at the rate of $120.60 per month. They also receive travel pay to and from camp, and while there are rationed and quartered at government expense.

The Professor of Military Science may grant deferments to any student enrolled in ROTC. This deferment will defer the student from induction for training and service under the Universal Military Training and Service Act until he has completed his college education. A student who is selected and signs a deferment agreement, agrees to enroll in and complete the advanced course, if selected therefor; to accept a commission upon graduation, if tendered; to serve on active duty as an officer for a period of not

[3]Two year program cadets must attend two (2) summer camps. Details available at the office of the Department of Military Science.

less than two years; and to remain a member of a regular reserve component of the Army until the sixth anniversary of the date of his commission. In some instances he may be authorized to serve only six months on active duty and to remain a member of a reserve component of the Army until the eighth anniversary of the date of his commission.

The signing of the deferment agreement is optional in the freshman and sophomore years, but becomes mandatory for a student entering the advanced course. Current regulations also provide for the deferment of the active duty training of newly commissioned students in cases where they have applied and been accepted for graduate work in any recognized field.

The branch of service in which commissions will be offered to the individual student will be dependent upon the needs of the Army and recommendations of a selection board composed of civilian and military faculty members. In cases where a student is commissioned and subsequently enters graduate school to specialize in such fields as medicine, ministry, and engineering he may, upon the completion of such training, apply for transfer to a branch of service related to his particular field of endeavor.

DESCRIPTION OF COURSES

101.[4] *First Semester, First Year Basic.* Lecture one hour, laboratory (drill) two hours; one credit.

A brief history and organization of the ROTC and reasons for its continued growth. A short introduction to evolution of firearms with emphasis on assembly and disassembly, mechanical functioning, care and maintenance and methods of employment of the U. S. rifle caliber .30 M-1. School of the Soldier and Exercise of Command.

102. *Second Semester, First Year Basic.* Lecture one hour, laboratory (drill) two hours; one credit.

A brief presentation of national defense policy and world-wide commitments that require support of the Armed Forces. A brief

[4]In addition to MS 101 and MS 102 each student in the first year basic ROTC program is required to take 30 hours work (two credits) in one of the following general academic areas: (a) effective communications, (b) science comprehension and (c) general psychology. This subject may be one that is required in the student's normal academic curriculum during his freshman year.

comparison of the military forces of the world. School of the Soldier and Exercise of Command.

201. *First Semester, Second Year Basic.* Lecture two hours, laboratory (drill) two hours; two credits.

American Military History. Military history as it has affected the organization, tactical, social and similar patterns of our present-day army. School of the Soldier and Exercise of Command.

202.[5] *Second Semester, Second Year Basic.* Lecture two hours, laboratory (drill) two hours; two credits.

Map and aerial photograph reading to include application of basic principles emphasizing terrain appreciation and evaluation; marginal information, military and topographic symbols, terrain orientation, elevation and relief, intersection and resection and use of the compass.

Introduction to operations and basic tactics and introduction to counterinsurgency operations. School of the Soldier and Exercise of Command.

301.[5] *First Semester, First Year Advanced.* Lecture two hours, laboratory (drill) two hours; one credit.

Leadership. The study of leadership from the functional approach; Role of the leader as head of the group: Interaction between the Company Commander, the Platoon Leader, and the Platoon Members; Responsibilities of the leader. School of the Soldier and Exercise of Command.

Branches of the Army. Organization, functions and mission of the arms and services; familiarization of the organization, functions and mission of the various arms and services in the overall mission of the Army.

Counterinsurgency. Nature and causes of insurgency, the concept of counterinsurgency operations, and the role of the US Army in countering insurgencies.

[5]Credit for MS 101, 102, 201 and 202 (Basic Course) is prerequisite—along with other requirements. In addition to MS 301, 302, 401 and 402 advanced ROTC students are required to take six semester credits which are not part of the normal requirement of their major field. These credits are to be selected in coordination with the Professor of Military Science and will be within the following general areas: Science comprehension, general psychology, effective communication and political institutions.

302. *Second Semester, First Year Advanced Section.* Lecture three hours, laboratory (drill) two hours; three credits.

Military Teaching Principles. Educational psychology as pertaining to the five stages of instructional techniques and importance to each; techniques used in planning and presenting instruction; speech for instructor; the construction and use of training aids.

Small Unit Tactics and Communication. Techniques of offensive and defensive combat and their application to the operations of the units of the Infantry Battalion. Familiarization with the means and techniques of communications. School of the Soldier and Exercise of Command.

401. *First Semester, Second Year Advanced.* Lecture three hours, laboratory (drill) two hours; three credits.

Operations. Staff organization and procedures. Responsibilities of staff officers using division staff as a model. Military intelligence, to include the intelligence cycle. Training management with emphasis on battalion and unit.

Logistics. Types, categories, classes of property. Garrison supply procedures to include accounting for lost, damaged, and destroyed property. Combat logistics with emphasis on logistical organizations and procedures of the division.

Administration. The role of the company grade officer in administration. Familiarization with Department of Army publications and administrative procedures. School of the Soldier and Exercise of Command.

402. *Second Semester, Second Year Advanced.* Lecture two hours, laboratory (drill) two hours; one credit.

Role of the United States In World Affairs. An orientation on geographical and economic factors, their influence on the division of people into nations and the causes of war.

Miltiary Law. History of development of military law. The Uniform Code of Military Justice and trial procedure.

Service Orientation. Orientation on customs and traditions of the service and military life. School of the Soldier and Exercise of Command. *Flight Training:* An FAA approved flight training program of approximately 35 hours ground training and 36 hours flight instruction conducted by civilian flight contract is offered to selected senior ROTC Cadets. Successful completion of the course will result in qualification for a private pilot's license.

Modern Languages[1]

Professors Oustinoff *(Head of the Department)*, Kallos, Reboussin, Ringgold, Stone. Associate Professors Banner, Coke, Hoffman, Korpi, Martel, McCary, Moore. Assistant Professors Beeler, Kurtz. Instructors Alewynse, Bieter, Gaar, Gonzalez-Abion, Haase, Johnston, Krebs, Mann, Otis, Strohofer, Tyler. Lecturer Palmaz.

Courses in the 100[2] and 200 groups are designed to give a well-rounded linguistic experience, including the spoken as well as the written language, and to develop an awareness and appreciation of other cultures. Supervised language laboratory is an integral part of courses 101 and 102; four class meetings and one hour in the language laboratory.

Courses in the 300 and 400 groups are designed to give further experience in the principal facets of language study, a reasonable knowledge of the literature, some experience in literary criticism, to the end that the student may experience in some degree the humanizing process which derives from the study and understanding of foreign languages and cultures. Courses in the 300 and 400 groups are conducted in the foreign language.

Students concentrating within the area of Modern Languages are required to take at least six credits in an Ancient Language.

FRENCH

Requirements for Concentration

The following courses are required for concentration in French, and should be taken in this order: French 301, 302, 304, 305, 306, 401, 403, 404, 406.

Students planning to concentrate in French are advised to choose Latin to satisfy the requirement of 6 semester credits in an Ancient Language.

---

[1]The distribution requirements for foreign languages are indicated on pages 87-88. All language requirements for a degree should be begun in the freshman year.

[2].No credit will be counted toward a degree for the first semester of an elementary foreign language unless followed by the successful completion of the second semester of that language.

Description of Courses

101, 102. *Elementary French.* Continuous course, including training in pronunciation, aural-oral comprehension with the use of audio-visual techniques. Lectures four hours; language laboratory one hour; four credits each semester. Students who have acquired 2 high school credits in French may not take French 101, 102 for credit. Staff.

201. *Graded Reading in French Prose.* Both semesters; lectures three hours; three credits. Prerequisite: two high school units or the equivalent. Students who have acquired three high school units in French may not take French 201 for credit. Staff.

Reading course that includes a grammar review.

202. *Readings in Modern Literature.* Both semesters; lectures three hours; three credits. Prerequisite: three high school units or French 201 or the equivalent. Staff.

Selected readings from the literature of the nineteenth and twentieth centuries.

205. *Intermediate Grammar and Composition.* Both semesters; lectures three hours; three credits. Prerequisite: French 202 or the equivalent. Mr. Ringgold and Mr. Otis.

Review of main principles of syntax. Composition.

206. *Intermediate Conversation.* Both semesters; lectures three hours; three credits. Prerequisite: French 205 or the equivalent. Mr. Coke.

Phonetics; intensive oral-aural training.

207. *Advanced Reading in French Literature.* First semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. Staff.

Selected readings from the literature of the seventeenth, eighteenth, nineteenth and twentieth centuries. A reading course designed as an introductory step to the 300 courses in literature.

208. *The French Heritage.* Second semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. Staff.

Reading course embodying the most important elements of French civilization, designed as an introductory step to the 300 courses in literature.

301. *Classical Literature.* First semester; lectures three hours; three credits. Prerequisite: French 207 or 208 or the equivalent. Mr. McCary and Mr. Coke.

Literary trends of the seventeenth century; study of representative works. The course also includes a short review of the main principles of French versification.

302. *Literature of the Eighteenth Century.* Second semester; lectures three hours; three credits. Prerequisite: French 207 or 208 or the equivalent. Mr. Oustinoff.

Literary trends of the eighteenth century; study of representative works.

304. *Advanced Grammar and Composition.* Second semester; lectures three hours; three credits. Prerequisite: French 205 and another 200 course or the equivalent. Mr. Ringgold.

Advanced syntax and intensive written work.

305, 306. *Advanced Conversation.* Continuous course; lectures three hours; three credits. Prerequisite: French 206 and another 200 course or the equivalent. Mr. Reboussin.

Advanced intensive oral-aural training.

401. *The Middle Ages and the Sixteenth Century.* First semester; lectures three hours; three credits. Prerequisites: French 301 and 302 or the equivalent. Staff.

Survey of literature up to 1600. Study of representative works.

403. *Romanticism.* First semester; lectures three hours; three credits. Prerequisites: French 301 and 302 or the equivalent. Mr. Reboussin.

Romantic movement and its principal exponents; study of representative works.

404. *Realism, Naturalism, and Symbolism.* Second semester; lectures three hours; three credits. Prerequisites: French 301 and 302 or the equivalent. Mr. Reboussin.

Nature of these literary currents; study of representative authors and works.

405. *Advanced Writing in French.* First semester; lectures three hours; three credits. Prerequisite: French 304 or the equivalent. Consent of the instructor required. STAFF.

An intensive course in writing and language analysis particularly designed to assist students who are planning to teach French in secondary schools. (Students concentrating in French who are accepted for this course may substitute it for another required French course as approved by the Chairman of the Department.)

406. *Contemporary Literature.* Second semester; lectures three hours; three credits. Prerequisites: French 301 and 302 or the equivalent. STAFF.

Contemporary literary trends; study of representative authors and works.

GERMAN

Requirements for Concentration

The following courses are required for concentration in German, and should be taken in the following order: German 206, 207, 301, 302, 305, 401, 402, 403 and 404.

Description of Courses

101, 102. *Elementary German.* Continuous course, including training in pronunciation, aural-oral comprehension with the use of audio-visual techniques. Lectures four hours; language laboratory one hour; four credits each semester. STAFF.

Students who have acquired two high school units in German may not take German 101, 102 for credit. STAFF.

201. *Graded Readings in German Prose.* First semester; lectures three hours; three credits. Students who have acquired three high school units in German may not take German 201 for credit. STAFF.

A reading course which includes a grammar review.

202. *Readings in Masterpieces of German Literature.* Second semester; lectures three hours; three credits. Prerequisite: three high school units or 201 or the equivalent. Mr. Korpi.

Selected readings from the masterpieces of German literature.

204. *Scientific German.* Second semester; lectures three hours; three credits. Prerequisite: German 202 or the equivalent. Mr. Korpi.

Reading of scientific texts in chemistry, physics, biology, and general science.

205. *Intermediate Grammar and Composition.* Both semesters; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. Staff.

Review of main principles of syntax; composition.

206. *Intermediate Conversation.* Both semesters; lectures three hours; three credits. Prerequisite: German 205 or the equivalent. Staff.

Phonetics; intensive oral-aural training.

207. *The German-Speaking Peoples and Their Civilization.* Both semesters; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. Staff.

Reading course embodying the most important elements of Germanic Civilization, designed as an introductory step to the 300 courses.

301. *German Classicism.* First semester; lectures three hours; three credits. Prerequisite: German 207 or the equivalent. Mr. Korpi.

Reading and interpretation of the chief works of Lessing, Goethe, and Schiller.

302. *Survey of German Literature.* Second semester; lectures three hours; three credits. Prerequisite: German 301 or the equivalent. Mr. Korpi.

Main currents of German literature from its origin through the Baroque period; study of representative works.

303. *Advanced Scientific German.* First semester; lectures three hours; three credits. Continuation of German 204. Prerequisite: German 204. Mr. Korpi.

Translating of difficult scientific articles in biology, chemistry, physics, general science, engineering, manufacturing, medicine, and psychology.

305. *Advanced German Composition and Conversation.* Second semester; lectures three hours; three credits. Prerequisites: German 205 and 206 or the equivalent. Mr. Korpi or Mr. Kallos.

401. *From Romanticism to Poetic Realism.* First semester; lectures three hours; three credits. Prerequisite: German 301 or 302. Mr. Korpi.

The Romantic Schools, political writers, the "Young Germany" circle, poetic realism, naturalism, impressionism; reading and interpretation of representative works.

402. *Modern German Literature.* Second semester; lectures three hours; three credits. Prerequisite: German 401 or the equivalent. Mr. Kallos.

Principal literary trends; reading and interpretation of representative works.

403. *German Poetry.* First semester; lectures three hours; three credits. Prerequisite: German 402 or the equivalent. Mr. Kallos.

Reading and interpretation of outstanding poetic works from the eighteenth century to the present.

404. *The Faust Sagas and Goethe's Faust.* Second semester; lectures three hours; three credits. Prerequisite: German 403 or the equivalent. Mr. Korpi or Mr. Kallos.

Reading and interpretation of Goethe's *Faust* (First Part), and a study of its historical background and sources.

ITALIAN[1]

101, 102. *Elementary Italian.* Continuous course, including training in pronunciation, aural-oral comprehension with use of audio-visual techniques. Lectures four hours; language laboratory one hour; four credits each semester. Students who have acquired two high school units of Italian may not take Italian 101, 102 for credit. MR. COKE.

201. *Intermediate Italian.* First semester; lectures three hours; three credits. Prerequisites: Italian 101 and 102 or the equivalent. MR. COKE.

A reading course which includes composition and oral practice.

202. *Reading in Italian Literature.* Second semester; lectures three hours; three credits. Prerequisites: Italian 101 and 102 or the equivalent. MR. COKE.

Selected readings from the literature of the eighteenth, nineteenth and twentieth centuries.

301. *Survey of Italian Literature from the Beginning to 1700.* First semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. MR. COKE.

Survey of Italian Literature up to 1700. Study of representative works.

302. *Italian Literature from 1700 to the Present Time.* Second semester; lectures three hours; three credits. Prerequisite: Italian 301 or the equivalent. STAFF.

Survey of Italian Literature up to 1950. Study of representative works.

RUSSIAN[1]

101, 102. *Elementary Russian.* Continuous course, including training in pronunciation, aural-oral comprehension with use of audio-visual techniques. Lectures four hours; language laboratory one hour; four credits each semester. Students who have acquired two high school units of Russian may not take Russian 101, 102 for credit. MISS TYLER.

[1]Owing to limited instructional facilities, enrollment will be restricted.

201. *Intermediate Russian.* First semester; lectures three hours; three credits. Prerequisites: Russian 101 and 102 or the equivalent. Miss Tyler.

Review of the fundamentals of grammar and pronunciation and reading of moderately difficult texts.

202. *Readings in Masterpieces of Russian Literature.* Second semester; lectures three hours; three credits. Prerequisites: Russian 101 and 102 or the equivalent. Miss Tyler.

Selected readings from Russian literature of the 19th century.

297, 298. *Survey of Russian Literature in English.* A continuous course, however, each semester may be taken singly for credit. Lectures three hours; three credits each semester.

A chronological survey of Russian literature from its beginning to the Soviet Period, with emphasis given to the major writers of the 19th century.

301. *Survey of Russian Literature from the Beginning to 1850.* First semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. Staff.

Survey of literature up to 1850. Study of representative works.

302. *Survey of Russian Literature from 1850 to the Present.* Second semester; lectures three hours; three credits. Prerequisite: Russian 301 or the equivalent. Staff.

Survey of Russian literature from 1850 up to the Present. Study of representative works.

SPANISH

Requirements for Concentration

The following courses are required for concentration in Spanish; and should be taken in this order: 301, 302, 303, 305, 306, 401, 402, 403, 404.

Students planning to concentrate in Spanish are advised to choose Latin to satisfy the requirement of six semester credits in an Ancient Language.

DESCRIPTION OF COURSES

101, 102. *Elementary Spanish.* Continuous course, including training in pronunciation, aural-oral comprehension with the use of audio-visual techniques. Lectures four hours; language laboratory one hour; four credits each semester. Students who have acquired two high school units in Spanish may not take Spanish 101, 102 for credit. STAFF.

201. *Intermediate Spanish Reading.* Both semesters; lectures three hours; three credits. Prerequisite: two high school units or the equivalent. Students who have acquired three high school units in Spanish may not take 201 for credit. STAFF.

A reading course which includes a grammar review.

202. *Readings in Modern Literature.* Both semesters; lectures three hours; three credits. Prerequisite: three high school units, or one 200 course or the equivalent. STAFF.

Selected readings from the lierature of the nineteenth and twentieth centuries.

205. *Intermediate Grammar and Composition.* Both semesters; lectures three hours; three credits. Prerequisite.: Spanish 202 or the equivalent. MR. HOFFMAN.

Review of main principles of syntax; composition.

206. *Intermediate Conversation.* Both semesters; lectures three hours; three credits. Prerequisite: Spanish 205 or the equivalent. MR. MOORE.

Phonetics; intensive oral-aural training.

207. *The Spanish Heritage.* First semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. STAFF.

Reading course embodying the most important elements of Hispanic civilization, designed as an introductory step to the 300 courses in literature.

208. *Readings in Masterpieces of Spanish Literature.* Second semester; lectures three hours; three credits. Prerequisite: four high school units or 202 or the equivalent. STAFF.

Selected readings from Spanish literature from the beginning to the present. A reading course designed as an introductory step to 300 courses in literature.

301. *Spanish Literature from the Beginning to 1700.* First semester; lectures three hours; three credits. Prerequisite: Spanish 207 or 208 or the equivalent. Mr. Moore.

Survey of Spanish literature from its beginning to the end of the Golden Age. Study of representative works.

302. *Spanish Literature from 1700 to the Present Time.* Second semester; lectures three hours; three credits. Prerequisite: Spanish 207 or 208 or the equivalent. Mr. Hoffman.

Survey of Spanish literature from 1700 to the present. Study of representative works.

303. *Advanced Grammar and Composition.* Second semester; lectures three hours; three credits. Prerequisite: Spanish 205 and another 200 course or the equivalent. Mr. Stone.

Advanced syntax and intensive written work.

305, 306. *Advanced Conversation.* Continuous course; lectures three hours; three credits. Prerequisites: Spanish 206 and another 200 course or the equivalent. Mr. Stone.

Advanced intensive oral-aural training.

401.[1] The Novel. First semester; lectures three hours; three credits. Prerequisites: Spanish 301 and 302 or the equivalent. Mr. Stone.

Survey of the early novel with detailed study of the modern novel since Romanticism. Study of representative works.

402. *Drama of the Golden Age.* First semester; lectures three hours; three credits. Prerequisites: Spanish 301 and 302 or the equivalent. Mr. Hoffman.

Survey of the drama from its beginning. Detailed study of the drama of the Golden Age. Study of representative works.

[1]Required of majors in Spanish.

403. *Cervantes.* Second semester; lectures three hours; three credits. Prerequisites: Spanish 301 and 302 or the equivalent. Mr. Moore.

The life and works of Cervantes with particular emphasis on the Quijote and the Novelas Ejemplares.

404. *Drama of the 19th and 20th Centuries.* Second semester; lectures three hours; three credits. Prerequisites: Spanish 301 and 302 or the equivalent. Mr. Moore.

Principal movements and authors in the drama of the 19th and 20th centuries. Study of representative works.

406. *Survey of Spanish American Literature.* Second semester; lectures three hours; three credits. Prerequisites: Spanish 301 and 302 or the equivalent. Mr. Hoffman.

Principal literary movements in Spanish America. Study of representative works. (Not offered 1965-1966).

HONORS STUDY

495, 496. *Honors.* Continuous course; hours to be arranged; three credits each semester. Staff.

Students admitted to Honors Study in Modern Languages will be enrolled in this course during both semesters of their senior year. The course comprises (a) supervised reading of a general bibliography in the language and literature of the student's field of concentration; (b) supervised reading of a special bibliography in the field of the student's major interest; (c) presentation by May 1 of a satisfactory Honors Essay in the field of the student's major interest; and (d) satisfactory performance in a comprehensive oral examination in the field of the student's major interest.

Music

Professors Fehr and Truesdell *(Head of the Department)*
Associate Professors Stewart and Varner.
Assistant Professor Paledes. Lecturers
Darling, Koman and Varner.

The Department of Music offers concentration in music appropriate for (1) prospective school music teachers; (2) students who desire a broad liberal arts program as cultural enrichment with the emphasis on music in combination with the other arts and humanities but who do not plan a professional career; and (3) students who desire a liberal arts base for later advanced specialization; *i.e.,* musicologist, composer, music librarian and college music teacher.

REQUIREMENTS FOR CONCENTRATION

The basic requirements for concentration in Music include 12 credits in Music Theory (Music 201, 202, 301, and 302); 6 credits in Music History (Music 311 and 312); 8 credits in Applied Music Instruction; and other credits in music for a maximum aggregate of 42 as indicated in the special concentration programs or in consultation with the Head of the Department. Proficiency at the Elementary Piano level is considered basic to all programs and is a requirement for graduation. All concentrators in Music are expected to participate in a senior recital, in lieu of which a term paper, an instrumental or choral arranging project, or an original musical composition may be accepted.

Concentrators in Music Education are required to complete Senior level Applied Music Instruction courses in their major applied music field for graduation. In addition, they should complete courses in both instrumental and vocal techniques.

Prospective music teachers are urged to begin the study of music as early as possible. It is not ordinarily possible to complete

the requirements for certification in Virginia in less than a three-year period.

Students preparing for the Virginia State Collegiate Professional Certificate are required by the Virginia Board of Education to qualify in general as indicated in the Education section of this catalogue on pages 134-135.

SPECIAL CONCENTRATION PROGRAMS IN PREPARATION FOR THE VIRGINIA COLLEGIATE PROFESSIONAL CERTIFICATE IN MUSIC

ELEMENTARY

Applied Music Ensemble	2-3
Music 327—Choral Conducting or Music 328—Instrumental Conducting	1
Music 321—Music in the Elementary School	3
Music 323, 324, 325—Instrumental Techniques or 2 Semesters of Instrumental Techniques and Music 326—Choral Materials and Procedures	6-7
	16-17

SECONDARY

Applied Music (In addition to basic requirements)	
Instruction	2
Ensemble	4
Music 327—Choral Conducting or Music 328—Instrumental Conducting	1
Music 322—Music in Secondary School	3
Music 323, 324, 325—Instrumental Techniques or 2 Semesters of Instrumental Techniques and Music 326—Choral Materials and Procedures	6-7
	16-17

RECOMMENDED PROGRAMS FOR THE FIRST TWO YEARS IN ELEMENTARY MUSIC EDUCATION

FRESHMAN YEAR

English 101, 102	6
Foreign Language	6-8
Physics 103-104 is recommended; or Biology, Chemistry, or Geology	10
Music 201-202—Theory I	6
Physical Education	2
	30-32

SOPHOMORE YEAR

English 201, 202	6
Foreign Language	6
History 101-102	6
Music 301-302—Theory II	6
Music 323, 324—Instrumental Techniques	4
Applied Music Instruction (Piano)	2
Physical Education	2
	32

For an emphasis in teaching instrumental music in the Secondary Schools, it is recommended that Applied Music Instruction for 2 credits, 1 each semester, be added to the freshman year program; and that 2 credits be added to the sophomore year program in Applied Music Ensemble. The Applied Music Instruction should be on the major instrument.

For an emphasis in teaching vocal music in the Secondary Schools, it is recommended that Applied Music Ensemble for 2 credits, 1 each semester, be added to the freshman year program. In the sophomore year, Applied Music Ensemble for 2 credits, 1 each semester.

SPECIAL CONCENTRATION PROGRAMS IN THEORY AND MUSIC HISTORY AND LITERATURE

THEORY

Music 401, 402—Form and Analysis	4
Music 403, 404—Choral Arranging and Orchestration	4
Music 405 and 406—Counterpoint	4
Music 411, 412—Advanced Studies in Music History and Literature or Music 413, 414—Problems in Music	4
	16

MUSIC HISTORY AND LITERATURE

Music 403—Choral Arranging or Music 404—Orchestration	2
Music 405—Counterpoint or Music 406—Counterpoint	2
Music 411, 412—Advanced Studies in History and Literature	6
Music 413, 414—Problems in Music	6
	16

To the program as recommended for the first two years in Elementary Music Education, the following additions and changes should be made for an emphasis in either Theory or History and Literature: Add 2 credits in Applied Music Instruction to the freshman and sophomore years. Humanities 201-202 may be an alternate selection for English 201-202. Music 323, 324 (Instrumental Techniques) should be deleted from the program.

DESCRIPTION OF COURSES

Theory

101, 102. *Introduction to Theory.* Continuous course; lectures two hours; two credits each semester. Mr. Stewart.

First semester, fundamental terms and concepts of music, the elements of notation, scales and tone systems; second semester, style in music, and the underlying principles of music structure. May not be included in music concentration.

*201, 202. *Theory I.* Continuous course; lectures two hours; three credits each semester. Lab two hours. Mr. Stewart.

Review of theory fundamentals; elementary harmony; the uses of triads, seventh chords and non-chord tones are learned through exercises, dictation, ear training and keyboard harmony.

301, 302. *Theory II.* Continuous course; lectures three hours; three credits each semester. Prerequisites: Music 201, 202. Mr. Stewart.

Advanced harmony, dealing with simple and extended alteration, secondary dominants, and advanced modulation. Second semester, application of harmonic techniques to elementary composition.

401, 402. *Form and Analysis.* Continuous course; lectures two hours; two credits each semester. Prerequisites: Music 301, 302.

The structural processes and forms of music, studied through analysis of examples of various periods and styles.

403, 404. *Choral Arranging and Orchestration.* Continuous course; lectures two hours; two credits each semester. Prerequisite: Music 301. Mr. Truesdell and Mr. Stewart.

First semester, choral arranging; second semester, orchestration.

405, 406. *Counterpoint.* Lectures two hours; two credits. Prerequisite: Music 301, 302. Mr. Stewart, Mr. Truesdell.

First semester; counterpoint in the style of J. S. Bach.

Second semester; counterpoint in the sixteenth century style of the motet, the madrigal and the Mass.

Music History and Literature

211, 212. *Introduction to Music.* Continuous course; lectures two hours; listening and quiz one hour; three credits each semester. Mr. Paledes.

This course is designed to meet the needs of students interested in music, without regard to previous training and experience. It is not open to juniors or seniors concentrating in Music. The course traces the development of the art of music through the various historical periods, and familiarizes the student with the more important composers and their works. A synopsis of style, form, and theory is included. The first semester goes to 1800; the second semester, from 1800 to the present.

*311, 321. *History.* Continuous course; lectures three hours; three credits each semester. Prerequisite: Music 201-202. Mr. Truesdell.

First semester, Ancient Greeks to 1750; second semester, 1750 to present. Includes readings, reports, notated and recorded examples of all periods of western cultures.

313. *Great Composers.* First semester; lectures two hours; two credits. Mr. Truesdell.

Major composers and works representative of various styles will be studied. The course is conducted on an intermediate level, and is not open to Music concentrators. (Not offered 1965-1966).

314. *The Symphony.* Second semester; lectures two hours; two credits. Mr. Truesdell.

A study of representative symphonic works of various periods; their style, form and orchestral setting. The course is conducted on an intermediate level, and is not open to Music concentrators. (Not offered 1965-1966).

315, 316. *Opera.* Lectures two hours; two credits. Mr. Truesdell.

Plots, music, and background of selected masterpieces from the standard operatic repertoire. First semester; Italian *bel canto* and French Grand Opera. Second semester; German Romantic Opera, Wagner, Strauss, Nationalists, and Modern developments. Each semester's work represents an individual unit, conducted on an intermediate level, and not open to Music concentrators.

*411, 412. *Advanced Studies in the History of Music.* Either semester. Two or three credits. For seniors only. Prerequisite: 311, 312. Mr. Truesdell.

Investigation of a particular period, type or style of music; *i.e.,* Renaissance, opera, J. S. Bach, etc.

†413, 414. *Problems in Music.* Either semester. Two or three credits per semester. For seniors only. Staff.

Individual advanced work under the direction of the instructor.

Music Education

320. *Music for Elementary School Teachers.* Both semesters; lectures three hours; three credits. Mr. Varner.

A course designed for prospective general teachers in the elementary grades. Not open to Music concentrators.

*321. *Music in the Elementary School.* First semester; lectures three hours; three credits. Mr. Varner.

Problems confronting the teacher of music in the elementary schools, and methods of instruction appropriate to the several grades. Primarily for Music concentrators.

*322. *Music in the Secondary School.* Second semester; lectures three hours; three credits. Mr. Varner.

Materials and methods of instruction on the secondary school level.

*323, 324, 325. *Instrumental Techniques, Materials, and Methods.* Lectures two hours; two credits each semester. Mr. Varner.

Three semesters are assigned, one each to woodwinds, brass, and strings; the development of performance skills and a study of the materials and methods of teaching. Percussion is correlated throughout the three semesters.

*326. *Choral Materials and Procedures.* First semester; lectures three hours; three credits. Prerequisite: Music 201, 202. Mr. Fehr.

A study of vocal and choral techniques and teaching methods.

*327, 328. *Instrumental and Choral Conducting.* Continuous course; lecture one hour; one credit each semester. Prerequisite: Music 201, 202. Mr. Fehr and Mr. Varner.

Study and practice in the techniques of the baton; problems of organizing musical groups.

†521, 522. *Graduate Seminar in Music.* Three credits per semester. Staff.

Individual advanced work under the direction of the instructor.

Applied Music

The College offers individual and group instruction in Voice, and individual instruction in Piano, Organ, Strings, Woodwinds, and Percussion.

A maximum of 10 credits may be earned through instruction courses, and a maximum of four credits may be earned through membership in musical organizations. Prerequisite or corequisite for all credit courses in Applied Music is a course in Music Theory. No credit in Applied Music is given until this requirement has been satisfactorily completed.

Students will be assigned to the course for which they are qualified on the basis of a placement test. Applied Music as an

elective earns one credit. Advanced students meeting exceptional standards and requirements may earn two credits.

Individual instruction in Applied Music is on the basis of 30-minute private lessons once or twice weekly. Minimum preparation for each 30-minute lesson per week is one hour of daily practice.

Schedule of Fees Per Semester

One hour of group instruction per week	$28.00
One 30-minute individual lesson per week	57.00
Two 30-minute individual lessons per week	94.00

Ensemble

*131.	Band	1 credit	Mr. Varner
*132.	Choir	1 credit	Mr. Fehr
*133.	Chorus	1 credit	Mr. Fehr
*134.	Orchestra	1 credit	Mr. Stewart
†135.	Small Ensembles	1 credit	Staff

Class

*Voice Class. Mr. Fehr.

141. I, II. Elementary Voice Class. One or two credits.
241. I, II. Intermediate Voice Class. One or two credits.
341. I, II. Advanced Voice Class. One or two credits.

†Individual Instruction

*Voice 051-451. Mr. Fehr.

051. Preparatory Voice. No credit.
151. I, II. Elementary Voice. One or two credits.
251. I, II, III, IV. Intermediate Voice. One or two credits.
351. I, II. Senior Voice. One or two credits.
451. I, II, III, IV. Advanced Voice. One or two credits.

*Piano 052-452. Mr. Truesdell, Mr. Paledes and Mrs. P. Varner.

052. Preparatory Piano. No credit.
151. I, II. Elementary Piano. One or two credits.
252. I, II, III, IV. Intermediate Piano. One or two credits.
352. I, II. Senior Piano. One or two credits.
452. I, II, III, IV. Advanced Piano. One or two credits.

*Organ 053-453. Mr. Darling.

053. Preparatory Organ. No credit.
153. I, II. Elementary Organ. One or two credits.
253. I, II, III, IV. Intermediate Organ. One or two credits.
353. I, II. Senior Organ. One or two credits.
453. I, II, III, IV. Advanced Organ. One or two credits.

*Strings 054-454. Mr. Stewart.

054. Preparatory Strings. No credit.
154. I, II. Elementary Strings. One or two credits.
254. I, II, III, IV. Intermediate Strings. One or two credits.
354. I, II. Senior Strings. One or two credits.
454. I, II, III, IV. Advanced Strings. One or two credits.

*Woodwinds 055-455. Mr. Varner.

055. Preparatory Woodwinds. No credit.
155. I, II. Elementary Woodwinds. One or two credits.
255. I, II, III, IV. Intermediate Woodwinds. One or two credits.
355. I, II. Senior Woodwinds. One or two credits.
455. I, II, III, IV. Advanced Woodwinds. One or two credits.

*Brass 056-456. Mr. Koman.

056. Preparatory Brass. No credit.
156. I, II. Elementary Brass. One or two credits.
256. I, II, III, IV. Intermediate Brass. One or two credits.
356. I, II. Senior Brass. One or two credits.
456. I, II, III, IV. Advanced Brass. One or two credits.

*Percussion 057-457. Staff.

057. Preparatory Percussion. No credit.
157. I, II. Elementary Percussion. One or two credits.
257. I, II, III, IV. Intermediate Percussion. One or two credits.
357. I, II. Senior Percussion. One or two credits.
457. I, II, III, IV. Advanced Percussion. One or two credits.

Philosophy

Professor MacDonald *(Head of the Department)*.[1] Associate Professors Foster[2] and Lachs. Assistant Professors Reed and Rogers. Instructors Leach and Pearce.

REQUIREMENTS FOR CONCENTRATION

Students concentrating in Philosophy must take at least 27 credits in Philosophy and three in Psychology. The 27 credits in Philosophy must include Philosophy 201, 202 (The History of Philosophy) and Philosophy 301 (Introduction to Logic).

DESCRIPTION OF COURSES

101, 102. *Analysis of Concepts.* Continuous course; discussion three hours; three credits each semester. Prerequisite: Freshman standing and consent of the instructor. Mr. Lachs.

An introduction to techniques of philosophical analysis through practice in their application to some of the concepts fundamental to Western thought such as: freedom, individuality, nature, symbol, knowledge, law, infinity, education, and value. Informal explication of selected concepts will aim at standards of rigor and precision comparable to what is demanded in the analysis of concepts in formal systems such as natural science and mathematics.

201, 202. *The History of Philosophy.* Continuous course; lectures three hours; three credits each semester. Mr. Rogers and Mr. Lachs.

An historical introduction to philosophy with readings from Plato, Aristotle, Lucretius, and St. Thomas Aquinas during the first semester; and from Descartes, Locke, Berkeley, Hume, and Schopenhauer during the second semester.

211-212. *Sophomore Seminar in Philosophy.* Continuous course; seminar two hours; two credits each semester. Prerequisite: Consent of the instructors. Staff.

[1]On leave of absence 1964-1965.
[2]Acting Head of the Department 1964-1965.

Directed reading, discussion and presentation of papers on selected topics in philosophy. Enrollment is limited to approximately twelve students.

301. *Introduction to Logic.* Both semesters; lectures three hours; three credits. MR. LEACH, MRS. REED, MR. ROGERS and MR. PEARCE.

An introduction to principles of valid reasoning with special emphasis on modern symbolic techniques and their uses.

302. *Intermediate Logic.* Second semester; lectures three hours; three credits. MR. LEACH.

A continuation of Phil. 301.

303. *Ethics.* First semester; lectures three hours; three credits. MR. LACHS.

A consideration of problems and theories about such topics as good and evil, right and wrong, pleasure, choice, duty, happiness and the good life.

304. *Aesthetics.* Second semester; lectures three hours; three credits. MR. FOSTER.

A philosophical analysis of the nature of aesthetic experience and its object, with a consideration of apprehension and judgment, concepts and criteria, and meaning and truth in the arts.

305. *Social and Political Ideologies.* Second semester; lectures three hours; three credits. MR. LACHS.

An examination of the philosophical background of European social and political theories of the past one hundred years. Analysis of selected writings of such philosophers as Hegel, Marx, Nietzche and Spencer.

306. *Contemporary Philosophy.* First semester; lectures three huors; three credits. MR. PEARCE.

An examination of major types and movements in Twentieth Century philosophy: e.g., naturalism, idealism, realism, pragmatism, existentialism.

308. *Continental Rationalism.* First semester; lectures three hours; three credits. MR. FOSTER.

Study of the philosophical systems of Descartes, Spinoza and Leibniz.

310. *Philosophy of Religion.* Second semester; lectures three hours; three credits. Mrs. Reed.

A philosophical investigation of the nature of religious experience, activity, and belief including the examination of such concepts as God, freedom and immortality as they appear in religion.

312. *Philosophical Problems.* First semester; lectures three hours; three credits. Prerequisites: Philosophy 201, 202. Mr. Rogers.

A study of major philosophical problems, such as methods of philosophy and science, problems of knowledge and reality, morality and conduct, and art and beauty.

321. *Philosophy of Science.* Second semester; lectures three hours; three credits. Prerequisites: Philosophy 201, 202 or Physics 101, 102 or Physics 103, 104. Mr. McKnight[1] and Mr. Rogers.

A philosophical consideration of the methods, assumptions and logic of modern science. Certain historical and structural relations of mathematics, and physical, biological and social sciences will be examined through representative readings. The contribution of modern science to philosophy will be appraised. (Same as Physics 321.)

322. *Philosophy of Social Science.* First semester; lectures three hours; three credits. Mr. Leach.

An examination of theories and methods in the social sciences and history. A comparison with the natural sciences is emphasized through consideration of such philosophic topics as the nature of explanation, concept formation, confirmation of theories and the relation of objective facts to subjective values.

395. *Junior Tutorial Seminar in Philosophy.* Second semester; three hours; three credits. Staff.

A preparatory course for Honors or advanced work in Philosophy. Supervised study directed toward acquiring a comprehensive familiarity with basic philosophic literature and precision in the

[1]Associate Professor of Physics.

conceptual formulation of philosophic issues through oral discussion and written papers.

401. *Metaphysics.* Second semester; lectures three hours; three credits. Prerequisites: Phil. 201, 202. Mr. Lachs

An examination of theories concerning such topics as being and nothingness, substance and accident, essence and existence, universals and particulars and mind and body.

402. *Medieval Philosophy.* Second semester; lectures three hours; three credits. Mr. Foster.

Analysis of selected writings of major medieval philosophers such as Augustine Scotus Erigena, Anselm, Maimonides, Bonaventura, and Aquinas.

403. *Theory of Knowledge.* First semester; lectures three hours; three credits. Prerequisites: Phil. 201, 202. Mrs. Reed.

An examination of theories concerning such topics as the nature and criteria of truth, perception and cognition, the nature and limits of knowledge, and verification and meaning.

†405. *Advanced Reading in Philosophy.* Any semester; hours to be arranged; credit according to the work done. Mr. Rogers, Mr. Foster, Mr. Lachs, Mrs. Reed, Mr. Leach and Mr. Pearce.

Individually supervised readings on special topics for advanced students. Prerequisite: Four courses in philosophy and permission of the department.

406. *British Empiricism.* Second semester; lectures three hours; three credits. Prerequisites: Phil. 201, 202. Mr. Leach.

A study of the philosophical writings of Locke, Berkeley, and Hume.

407, 408. *Senior Seminar in Philosophy.* Continuous course; seminar three hours; three credits each semester. Staff.

A meeting of the Faculty of the Department with advanced students for the purpose of philosophical investigation. An important modern philosophical work is examined each semester and students are required to write and present papers for critical discussion.

411-415. *The Great Philosophers.* Each course one semester; lectures three hours; three credits. Prerequisites: Philosophy 201, 202. Mr. Foster, Mr. Lachs, Mr. Rogers, Mrs. Reed, Mr. Leach and Mr. Pearce.

In general it is the plan of the department to offer one or two of the following courses each year:

411. *The Philosophy of Plato.*

412. *The Philosophy of Artistotle.*

413. *The Philosophy of Spinoza.*

414. *The Philosophy of Hume.*

415. *The Philosophy of Kant.*

Legal Philosophy. Second semester; lectures three hours; three credits. (See Marshall-Wythe School of Law, page 200.)

HONORS STUDY

495-496. *Honors.* Continuous course; hours to be arranged; three credits each semester. Staff.

Students admitted to Honors Study in Philosophy will be enrolled in this course during both semesters of their senior year. The course comprises (a) supervised reading in the field of the student's major interest; (b) supervised reading of works selected from a general bibliography in the field of concentration; (c) satisfactory completion of a comprehensive examination covering Logic, History of Philosophy, Ethics or Aesthetics and Metaphysics or Theory of Knowledge; (d) the preparation and presentation by May 1 of an Honors Essay.

Physical Education for Men

Associate Professors Smith *(Head of the Department)* and Jensen. Assistant Professors Chambers, Linkenauger and Hooker. Instructors Agee, Derringe, Groves, Neilson, Peccateillo, Tammariello and Witten. College Physician DeBord, M.D.

REQUIREMENTS FOR CONCENTRATION

The minimum number of semester credits required for concentration in Physical Education is 34 and must include Physical Education 203, 308, 310, 313, 413, 316 or 412, 408, 411, 494 and Biology 307 and 308. All courses except Physical Education 203 and 208 of the concentration program must be taken during the student's junior and senior years.

Students may elect to take either the B.S. degree or the A.B. degree. (See pages 86-90.)

Those students desiring to meet the professional requirements for certification in the State of Virginia should plan their programs with the head of the Department of Physical Education. Students enrolling in professional courses to meet certification requirements in other states should first consult a member of the faculty of the Department of Education.

PROGRAM FOR ADVANCED STUDY

Students who are qualified for advanced study and who have satisfied admission requirements may register for the Master of Arts Degree with concentration in Physical Education or for the degree of Master of Education with emphasis in Education and Physical Education as a related field. (See pages 137-138.) A minimum residence period of one regular session or of four summer sessions of nine weeks is required.

In addition to the general requirements for admission established by the College, students desiring to enter upon graduate study in Physical Education should present satisfactory undergraduate work in Physical Education or related fields, from a recognized institution.

A minimum of 15 credits of the total 24 submitted for the Master of Arts degree must be in the department of concentration. Other courses should be selected from related departments such as Education, Sociology and Biology, or selected from additional courses in Physical Education. For special requirements of the M.Ed. degree, see pages 137-138.

SPECIAL CONCENTRATION PROGRAM LEADING TO STATE CERTIFICATION

Freshman Year

First Semester	*Credits*	*Second Semester*	*Credits*
Biology 101, or Chemistry 101, or Physics 101, 103	5	Biology 102, or Chemistry 102, or Physics 102, 104	5
English 101	3	English 102	3
Language	3 or 4[1]	Language	3 or 4[1]
Mathematics 101	3	Mathematics 102	3
Physical Education 101	1	Physical Education 102	1
Elective	2	Elective	2
Total Semester Credits	15 to 18	Total Semester Credits	15 to 18

Sophomore Year

English 201	3	English 202	3
Economics 201, Government 201, History 101, Sociology 201	Two of Four 6	Economics 202, Government 202, History 102, Sociology 202	Two of Four 6
Language	3 or 4[1]	Language	3 or 4[1]
Physical Education 203	3	Physical Education 208	3
Physical Education 201	1	Physical Education 202	1
Elective	2	Elective	2
Total Semester Credits	15 to 18	Total Semester Credits	16 to 19

Junior Year

Biology 307	3	Biology 308	3
Education 301	3	Education S302	3
Physical Education 310	2	Physical Education 308	3
Physical Education 313	2	Physical Education 312	3
Physical Education 321	3	Physical Education 316	2
Elective	4-5	Elective	2-4
Total Semester Credits	17 to 18	Total Semester Credits	16 to 18

[1]See page 87.

SENIOR YEAR

First Semester	*Credits*	*Second Semester*	*Credits*
History 201	3	Education 411 or 404	3
Physical Education 494	3	Physical Education 408	3
Physical Education 411	3	Physical Education 412	2
Physical Education 413	2	Physical Education 414	2
Physical Education 415	3	Physical Education 416	3
Elective	3-4	Elective	3-4
Total Semester Credits	17 to 18	Total Semester Credits	16 to 17

NOTE: Electives may very well be used to make up a teaching minor. Possible minors are in language, mathematics, science, and social studies.

The above comprehensive program qualifies a person for a number of positions: teaching Physical Education in a consolidated school or a large secondary school; teaching Physical Education and a second subject in a small secondary school; coaching and directing athletics combined with the teaching of another subjects or subjects; supervising physical education and recreation programs; summer camp work; and preparation for graduate study in Physical Education or Physical Therapy.

DESCRIPTION OF COURSES

Students concentrating in other departments may elect physical education courses according to interest or to prepare for teaching combinations, recreation work, or other related fields.

101, 102, 201, 202. *Required Physical Education.* Both semesters; three hours or two double periods; one credit each semester. STAFF.

All freshman and sophomore men must register for required Physical Education, and placement in activities will be based on the results of initial skill tests. Students with physical defects will be registered in a special adapted sports class on the recommendation of the college physician. Instruction is given in the following individual and group activities: advanced swimming and life saving, beginning swimming, badminton, basketball, golf, handball, soccer, softball, speedball, tennis, touch football, track and field, tumbling, volleyball, and wrestling. Each student must attain a satisfactory degree of proficiency in one team or group

activity, one individual indoor activity, one individual outdoor activity, and must pass a swimming test. A regulation uniform is required.

203. *Playground and Recreational Activities.* First semester; lectures and laboratory four hours; three credits. Mr. Smith.

Theory, practice, teaching fundamentals of basic skills and relays of low organization; team and individual activities for both elementary and secondary level. Physical fitness testing.

208. *First Aid, Safety and Driver Education.* Second semester; lectures and laboratory four hours; three credits. Mr. Jensen.

Advanced Red Cross First Aid, advanced certificate awarded upon successful completion of course; safety projects and problems; selection and organization of materials, methods, and techniques of driver education including behind the wheel instruction.

308. *Applied Anatomy and Kinesiology.* Second semester; lectures three hours; three credits. Prerequisite: Biol. 308. Mr. Linkenauger.

A study of the principles of human motion. Anatomical and mechanical analysis of individual skills in physical education activities.

310. *History and Principles of Physical Education.* Either semester; lectures three hours; three credits. Mr. Jensen.

An orientation course in the history and principles of physical education, health, and recreation.

312. *Physical Education—General Theory.* Second semester; lectures three hours; three credits. Mr. Smith.

Application of teaching fundamentals and techniques. Evaluation of test materials and measurement programs; curriculum construction.

313. *Advanced Gymnastics and Wrestling.* First semester; lectures and laboratory four hours; two credits. Mr. Witten.

Tumbling stunts, trampoline, heavy apparatus and body conditioning skills. Pyramid building and exhibition planning. Theory, practice, and coaching of wrestling.

316. *Theory and Coaching of Baseball, Track and Field.* Second semester; lectures and laboratory four hours; two credits. Mr. Agee and Mr. Groves.

Study of approved techniques in coaching baseball, track and field in all phases. Acquisition of advanced skills and competencies.

318. *Sports Officiating.* Either semester; lectures and laboratory four hours; two credits. Mr. Jensen.

Analysis of the rules, officiating techniques and problem solving in officiating team sports. A minimum of twelve contact hours of practical experience in supervised officiating in the intramural program is required.

321. *Foundations of Health Education.* Either semester; lectures three hours; three credits. Mr. Smith.

Instructional concepts applicable to health education for various age levels, organization of classes, selection of content and evaluation of outcomes. Survey of State Department publications and other resource material.

408. *Organization and Administration of Health and Physical Education Programs.* Second semester; lectures three hours; three credits. Mr. Smith.

Organizational and administrative policies and procedures for physical education, health, and intramural programs in junior and senior high schools.

409. *Organization and Administration of Community Recreation Programs.* First semester; lectures two hours; two credits. Mr. Groves

Administrative policies and procedures; legal aspects; public relations; qualifications and duties of personnel; study of federal, state and local agencies.

411. *Therapeutic Physical Education.* First semester; lectures three hours; three credits. Prerequisite: Biol. 308. Mr. Smith and Mr. Linkenauger.

Physical examinations with emphasis placed on the recognition of normal and faulty postural conditions at various age levels. Special attention given to remedial exercises and adaptive activi-

ties, theory and practice of taping and massage, techniques and modalities in physical therapy and their application to physical education injuries.

412. *Theory and Coaching of Football and Basketball.* Second semester; lectures and laboratory four hours; two credits. Mr. Neilson and Mr. Agee.

Theory, practice, and coaching methods; team problems.

413. *Advanced Tennis and Golf.* First semester; lectures and laboratory four hours; two credits. Mr. Derringe and Mr. Chambers.

Theory, practice and coaching methods and techniques.

414. *Advanced Swimming and Rhythmics.* Second semester; lectures and laboratory four hours; two credits. Mr. Smith.

Theory, practice, coaching methods and techniques in swimming and diving. Red Cross Water Safety Instructor Certificate may be earned. Fundamental rhythmics, folk and square dancing.

415, 416. *Student Teaching.* Continuous course; five hours; three credits each semester. Prerequisites: senior standing, nine credits in Education; fifteen semester credits in Physical Education. Mr. Smith.

Daily observation and teaching at the laboratory school. Weekly conferences, special assignments and reports.

492. *Physiology of Activity.* Graduate credit. Either semester; lectures three hours; three credits. Prerequisite: Biol. 305, or the equivalent. Mr. Linkenauger.

Physiological aspects of exercise, fatigue, coordination, training and growth; functional tests with normal and abnormal subjects; investigations and independent readings.

493. *Philosophy and Literature in Health, Physical Education and Recreation.* Graduate credit. Either semester; lectures three hours; three credits. Mr. Smith.

Extensive readings, discussions and evaluations of historical and current philosophies and practices; educational implications of problems facing the separate fields.

494. *Test and Measurements in Health, Physical Education and Recreation.* Either semester; lectures three hours; three credits. Prerequisite: Education 414 or approval of instructor. Mr. Witten.

Evaluation techniques which may be employed in health education and physical education. Emphasis is placed on tests of physical fitness, sports ability, body mechanics, growth, and written health tests. History of tests and measurements, organization of tests and measurements program and classification and grading practices.

502. *Problems and Research in Health, Physical Education and Recreation.* Either semester; lectures three hours; three credits. Prerequisite: Education 501 or the equivalent. Mr. Smith.

The application of various methods and statistical techniques as most commonly used in physical education research. Limited research studies and problems are conducted in the three areas.

503. *Seminar in Advanced Techniques in Sports.* Either semester; lectures three hours; three credits. Mr. Hooker.

Consideration given to the designing of plays, types of strategy, and instruction and handling of players.

506. *Administration and Supervision in Physical Education, Health and Recreation.* Either semester; lectures three hours; three credits. Mr. Smith.

Problems of administration and supervision in the three areas, modification of programs to fit the facilities available, curriculum planning, grading procedures and techniques of instruction.

508. *Health Coordination.* Either semester; lectures three hours, three credits. Mr. Smith.

Factors of school and community activities related to health. Relationships of the service, instructional, protective, and guidance phases in the health program.

MEDICAL ATTENTION

The College will not be responsible for doctors' bills for medical attention of any kind for students who are injured in Intramural Sports, Intercollegiate Athletics or Physical Education classes, except such attention as is furnished by the College physician and resident nurses.

Physical Education for Women

Associate Professors Reeder *(Head of the Department)* and Barksdale. Assistant Professors Barrett and Roby. Instructors Corbett and Rucker. Lecturer Alewynse. College Physician DeBord, M.D.

All freshmen and sophomores must register for Physical Education. Proficiency must be established in team sports, individual sports, swimming, and dance. Placement in activities is based upon the home physician's medical report. A regulation uniform is required.

DESCRIPTION OF COURSES

101. *Team Sports.* Both semesters; two double periods; one credit. Miss Barksdale, Mrs. Corbett, Miss Rucker and Miss Reeder.

Seasonal activities; hockey, basketball, volleyball, and lacrosse.

102. *Dance.* Both semesters; two double periods; one credit. Mrs. Alewynse, Miss Roby and Miss Rucker.

Fundamentals of modern dance.

†145, 146. *Adapted Activities.* First and second semester; two double periods, one credit each semester. Staff.

Upon recommendation of the College physician these courses may be substituted for required courses.

†195, 196. *Selected Sports and Dance Activities.* First and second semester; two double periods; one credit. Miss Reeder.

Upon recommendation of the head of the Department, these courses (designed for proficient students) may be submitted for required courses.

201. *Swimming.* Both semesters; two double periods; one credit. Miss Barrett, Mrs. Corbett, Miss Reeder and Miss Rucker.

Safety skills, standard swimming strokes, diving, life saving techniques.

202. *Individual Sports.* Both semesters; two double periods; one credit. Miss Barksdale, Miss Reeder, Miss Rucker and Miss Barrett.

Seasonal activities: archery, tennis, fencing, badminton, bowling and golf.

ELECTIVE COURSES IN PHYSICAL EDUCATION FOR WOMEN

The following courses are intended to supplement the four semesters of required physical education and may be elected for academic credit. These courses are open to juniors and seniors, and may be elected concurrently with a required class by sophomores. Freshmen may elect these courses in addition to required work with permission of the head of the Department.

302. *Waterfront Leadership.* Second semester; lectures and laboratory, four hours; two credits. Prerequisite: Senior Life Saving (students should be at least nineteen years of age). Miss Barrett.

Especially designed for students who wish to do camp and playground work and includes Instructor's course of the American Red Cross.

303, 304. *Coaching and Officiating of Selected Sports.* Both semesters; lectures and laboratory four hours; two credits each semester. Prerequisite: Proficiency in two of the following sports: hockey, basketball, tennis, swimming, softball. Miss Barksdale and Miss Reeder.

Theory and practice in the coaching and officiating of two seasonal sports each semester. Women's National Officials Rating Tests will be given.

305, 306. *Dance Composition.* Continuous course; lectures and laboratory, four hours; two credits each semester. Prerequisite: Physical Education 102. Miss Roby.

First Semester: An introduction to the elements, materials and structure of a dance composition.

Second Semester: Composition of dance etudes; form and style related to other modern arts.

WOMEN'S SPORTS

Recreational activities are conducted under the auspices of the Women's Athletic Association Committee. (See page 53.)

MEDICAL ATTENTION

The College will not be responsible for doctor's bills for medical attention of any kind for students who are injured in athletics or Physical Education classes, except such attention as is furnished by the College physician and resident nurses.

Physics

Professors Pittman *(Head of the Department)*, Feix, McLennan, Siegel and Winter. Associate Professors Crawford, Crownfield, Funsten, Lawrence, McKnight, Smith and Welsh. Assistant Professors Eckhause, Kernell, Long, Ofelt and Padgett.[1] Research Associate Kane.

REQUIREMENTS FOR CONCENTRATION

Students desiring to concentrate in Physics should enroll in the Pre-Engineering Program for the first year. The minimum number of semester credits required for concentration in Physics is 37, and must include Physics 101, 102, 203, 207, 208, 303, 304, 411, 412[2], and 6 semester credits selected from Physics 405, 406, 407, 409. It is strongly recommended that the qualified student begin calculus in the freshman year.

DESCRIPTION OF COURSES

101-102. *General Physics.* Continuous course; lectures four hours, laboratory two and one-half hours; five credits each semester. Mr. Pittman and Staff.

Mechanics, heat, and sound first semester. Electricity, light and modern physics second semester. Required of all students concentrating in physics, all pre-medical students, and all students preparing for engineering. Two sections of this course are designed particularly for outstanding students that have had good high school courses in physics and are currently enrolled in mathematics 201. The University of California, Berkeley experimental physics program will be adopted for this group of students. The experiments will be largely electrical in nature and will be built around the cathode-ray oscilloscope. Students concentrating in one of the sciences or mathematics who choose physics for satisfying the distribution requirements, should enroll in Physics 101-102, not Physics 103-104.

[1]Second Semester, 1964-65.
[2]Students enrolled in 495, 496 are not required to take Physics 411, 412.

103, 104. *Elementary Physics.* Continuous course; lectures four hours; laboratory two and one-half hours; five credits each semester. Mr. Crawford and Staff.

A beginning course in College Physics satisfying the distribution requirements in the field of science. Designed for the non-science concentrator. Mechanics, heat and sound first semester; electricity, light and atomic physics second semester. Attention is given to the historical development and philosophical significance of physical concepts and theories. Applications to elementary problems. The role of physics in the modern world.

106. *Descriptive Astronomy.* Second semester; lectures three hours; three credits. Staff.

Descriptive study of the solar system; theories of origin of the solar system. Star classification; descriptive studies of star clusters and galaxies. Recommended for science teachers. An elective course with no credit in physics.

203. *Introduction to Modern Physics.* First semester; lectures three hours; laboratory three hours; four credits. Prerequisite: two semesters in physics and calculus. Mr. Welsh.

A consideration of selected topics including classical physics, electromagnetic radiation, wave and particle aspects of particles and quanta, the Rutherford-Bohr atom, many electron atoms, electrons and photons, radioactivity, nuclear reaction. Selected laboratory experiments with atoms, electrons, ions, and atomic spectra.

207. *Geometrical and Physical Optics.* Second semester; lectures three hours; laboratory three hours; four credits. Prerequisite: two semesters of physics and calculus. Mr. Crawford and Mr. Pittman.

Geometrical optics; theory and use of the prism spectrometer; diffraction phenomena, interferometry; polarization phenomena; application of the theory of physical optics; experiments in optics and spectroscopy.

208. *Mechanics.* First semester; lectures three hours; three credits. Prerequisites: three semesters of physics and calculus. Mr. Lawrence.

Theoretical applications of the laws of mechanics; numerous problems in mechanics. The combination of Physics 208 and Physics 307 meets the mechanics course requirements for admission to the junior class of engineering schools.

211. *Electronics.* First semester; lectures two hours weekly, laboratory three hours; three credits. Prerequisites: two semesters of physics and enrollment in calculus. STAFF.

Electronics: characteristics of modern vacuum and gas-filled thermionic tubes and their application in circuits of importance to scientific work and instrumentation.

300. *Mathematical Physics.* Second semester; lectures three hours; three credits. Prerequisite: Mathematics 203. STAFF.

A consideration of mathematical principles from the viewpoint of applications to physical problems. Topics selected from ordinary differential equations and vector analysis. This course does not carry credit in physics.

302. *Thermodynamics.* Second semester; lectures three hours; three credits. Prerequisite: concurrent enrollment in Mathematical Physics 300 or Mathematics 302 or the consent of the instructor. MR. MCLENNAN.

Theory of thermodynamics. Applications of thermodynamics to ideal and actual systems.

303, 304. *Electricity and Magnetism.* Continuous course; lectures three hours; laboratory three hours; four credits each semester. MR. MCLENNAN and MR. LONG.

Development of the theory of electricity and magnetism from fundamental principles employing vector treatment. This includes DC and AC circuit theory and analysis and an introduction to Maxwell's equations.

Laboratory training includes DC and AC electrical measurements and an introduction to electronics.

307. *Engineering Mechanics.* Second semester; lectures three hours; three credits. Prerequisite: Physics 208. MR. SMITH.

Statics, dynamics, kinematics of rigid bodies; deformable media. Analytic and graphic methods of solution. Emphasis on

application of basic principles to the solution of problems. (See Physics 208.)

321. *Philosophy of Science.* Second semester; lectures three hours; three credits. Prerequisites: Philosophy 201, 202 or Physics 101, 102, or Physics 103 or 104. Mr. McKnight or Mr. Rogers.

A philosophical consideration of the methods, assumptions, and logic of modern science. Certain historical and structural relations of mathematics, and physical, biological, and social sciences will be examined through representative readings. The contribution of modern science to philosophy will be appraised. (Same as Philosophy 321.)

401. *Mathematical Physics.* First semester; lectures three hours; three credits. Prerequisite: Mathematical Physics 300 or the consent of the instructor. Mr. Smith.

A consideration of mathematical principles from the viewpoint of applications to physical problems. Topics selected from vector analysis, theory of complex variables, partial differential equations, orthogonal functions and operational methods. This course does not carry undergraduate credit in physics.

405. *Introduction to Theoretical Physics I.* First semester; lectures three hours; three credits. Mr. Lawrence.

Motions of particles and rigid bodies; LaGrange and Hamilton's Equations. Methods of vector calculus.

406. *Introduction to Theoretical Physics II.* Second semester; lectures three hours; three credits. Mr. Lawrence.

Thermodynamics; introduction to statistical mechanics; electrostatics; introduction to electrodynamics.

407. *Modern Physics.* Second semester; lectures three hours; three credits. Mr. Ofelt.

A comprehensive study of the concepts and experiments in relativity, radiation, quantum theories, quantum phenomena, atomic structure, spectra and nuclear phenomena.

409. *Introduction to Quantum Mechanics.* First semester; lectures three hours; three credits. Prerequisite: six semesters of physics. Mr. Ofelt.

Matrix mechanics. Representations. Approximation and perturbation methods. Scattering theory, partial wave analysis. Spin, identical particles. Semi-classical treatment of the radiation field.

411, 412. *Problems in Physics.* A continuous course; laboratory six hours; one credit per semester. STAFF.

An introduction to research techniques in physics. Required of all physics majors.

413. *Nuclear Physics.* Second semester; lectures three hours; three credits. MR. WELSH.

Fundamental properties of nuclei, nuclear forces, nuclear reactions, elementary description of nuclear models, interaction of radiation with matter, radioactivity. Brief introduction to nuclear measurement equipment, particle accelerators and high energy experimental nuclear physics.

414. *Nuclear Physics Laboratory.* Second semester; laboratory three hours; one credit. MR. WELSH and STAFF.

Introduction to the experimental apparatus of nuclear physics, geiger counters, scintillation counters, solid state detectors, amplifiers, pulse height analyzers, etc. Interaction of radiation with matter, alpha, beta and gamma ray absorption, neutron scattering, neutron activation analysis. Mössbauer Effect. Counting statistics and the treatment of experimental data.

495, 496. *Honors.* Continuous course; hours to be arranged; three credits each semester. MR. MCKNIGHT.

Students admitted to Honors Study in Physics will be enrolled in this course during both semesters of their senior year. Each candidate will be responsible for (a) reading and discussion of a selected list of books in some specific area of the literature of physics; (b) the preparation and presentation by May 1 of an Honors Essay based on his own research or his part of a major research project; (c) satisfactory completion of a comprehensive examination in the field of the student's major interest.

MASTER OF ARTS AND MASTER OF SCIENCE DEGREE IN PHYSICS

Admission and Requirements

The candidate for the degree of Master of Arts and Master of Science in Physics must meet the following requirements in addition to the general requirements stated on pages 93-94 of this catalogue:

1. After consultation with the Physics Department, the student may be required to take undergraduate courses in which his preparation is deemed inadequate.

2. The student must demonstrate a reading knowledge of French, German, or Russian, in the subject matter of Physics.

3. All graduate students are required to take an examination on the entire field of undergraduate physics. This examination is usually given during the first semester of graduate study.

4. The student is required to register for Physics 580 Colloquium, during a minimum of one semester of residence.

5. The thesis topic must be chosen and work begun in consultation with the Physics Department staff. Work completed while working elsewhere (e.g., NASA Langley Research Center) may be used as a thesis provided the above requirement is met.

6. Students enrolled in a program leading to the Master of Science degree are required to substitute eight semester hours of prescribed courses for the thesis.

DOCTOR OF PHILOSOPHY DEGREE IN PHYSICS

Admission and Requirements

The degree of Doctor of Philosophy will be conferred upon candidates who are holders of an approved baccalaureate degree and who have fulfilled the following requirements:

1. The attainment of a reading knowledge of French and German sufficient to enable the student to use these languages for purposes of research. Russian may be substituted for either French or German. This requirement must be met prior to taking the General Comprehensive Examination.

2. The successful completion of not less than three academic years of full-time graduate work, of which at least the last full academic year must be in residence at the College, of the program approved for the candidate by the Department of Physics and Graduate Studies Committee.

3. A satisfactory standing in the General Comprehensive Examination. A student may not begin work on a dissertation until this requirement is satisfied.

4. The preparation of a dissertation exhibiting independent research in the field of physics, to be submitted in completed form to the Thesis Committee of which the candidate research advisor is chairman. The dissertation must be presented in completed form to the Thesis Committee not later than May 1 of the final academic year of candidacy.

All dissertations must conform to the general thesis requirements of the College and will be published by having a master microfilm made from the original which will be serviced and stored by "University Microfilms" of Ann Arbor, Michigan. Each dissertation must be accompanied by two copies of an abstract of 600 words or less. This abstract will be published in microfilm abstracts for national distribution. A fee of $25 for the above services must be paid by the candidate before the Doctor of Philosophy Degree will be conferred.

5. A satisfactory standing in a final oral examination before the Physics Department faculty and other members of the college faculty and scientific community. No candidate will be admitted to this final examination until his dissertation has been submitted in completed form.

All requirements for the doctorate degree must be completed within seven years from the time of admission to graduate studies.

GRADUATE COURSES

501. *Classical Mechanics.* First semester; lectures four hours; four credits. Prerequisite: Physics 405. STAFF.

LaGrange's equations; small oscillations; rigid body motion, Hamilton's equations; relativistic mechanics.

505-506. *Classical Electricity and Magnetism.* Continuous course; lectures three hours; three credits each semester. Prerequisite: Physics 405-406. Mr. Funsten.

Electrostatics: Solution of boundary value problems, Green's functions and direct solution of LaPlace equation. Magnetostatics and steady currents. Maxwell's equations and plane wave solutions, waves inside conduction boundaries. Radiation from simple current systems, spherical waves and multipole radiation. Covariant formulation of electromagnetism. Interaction of radiation with matter.

510. *Quantum Mechanics.* Second semester; lectures three hours; three credits. Prerequisite: Physics 409. Staff.

Matrix mechanics. Representations. Approximation and perturbation methods. Scattering theory, partial wave analysis. Spin, identical particles. Semi-classical treatment of the radiation field.

511-512. *Advanced Quantum Mechanics.* Continuous course; lectures three hours; three credits each semester. Prerequisite: Physics 510. Mr. Winter.

Selected topics in advanced quantum mechanics. Relativistic quantum mechanics; Klein-Gordon and Dirac equations and their interpretation. Propagator theory. Introduction to field theory.

516-517. *Statistical Physics and Thermodynamics.* Lectures three hours; three credits each semester. Prerequisite: Physics 409 and Physics 501. Mr. Crownfield.

Fundamentals of statistical mechanics; classical and quantum mechanical theory of ensembles; the density matrix; the grand canonical ensemble; fluctuations and noise; irreversible thermodynamics; kinetic methods; transport theory.

521-522. *Mathematical Physics.* Continuous course; lectures three hours; three credits each semester. Mr. Siegel.

Complex variables and analytic functions; Fourier series and integrals; matrices; separation of variables; series solutions; orthogonal functions; numerical methods; Green's function methods; group theory; application to vibrations and wave propagation, transport phenomena, potential problems.

531-532. *Solid State.* Two semesters; lectures three hours; three credits each semester. Prerequisite: Physics 409. STAFF.

Electronic theory of solids; crystal lattices; theory of metals; semiconductors and insulators; energy bands, conductivity, magnetic properties of solids, superconductivity, magnetic resonance.

541-542. *Advanced Nuclear Physics.* Lectures three hours; three credits each semester. Prerequisites: Physics 409, 413, 510. STAFF.

Low energy nuclear physics and nuclear interactions. Nuclear forces; the deuteron: nuclear models; scattering of nucleons; emission and absorption of gamma rays; nuclear reactions; beta decay.

543. *Introduction to Elementary Particle Physics.* Lectures three hours; three credits either semester. MR. SIEGEL.

Selected topics in Elementary Particle Physics.

545-546. *High Energy Physics.* Lectures three hours; three credits each semester. STAFF.

Selected topics in high energy physics.

555. *Atomic Spectroscopy.* First semester; lectures three hours; three credits. Prerequisite: Physics 409. MR. OFELT.

Theory of atomic structure; emission and absorption processes; one electron processes; one electron spectra; complex spectra; atomic interactions; coupling schemes; Zeeman and Stark effects; a study of hyperfine structure.

556. *Molecular Spectroscopy.* Second semester; lectures three hours; three credits. Prerequisite: Students are strongly advised to have completed Physics 555 before enrolling in this course. MR. OFELT.

A study of the theory of the spectra of diatomic and polyatomic molecules in the microwave, infrared, visible and ultra-violet regions.

561. *Introduction to Astrophysics.* First semester; lectures three hours; three credits. Prerequisite: Physics 407, 409, 501. MR. LAWRENCE.

Brief survey of celestial mechanics. Application of atomic theory to solar and stellar spectra. Luminosities, temperatures, diameters, and masses of stars. Brief introduction to atmospheric physics.

564. *Physics of the Upper Atmosphere.* Lecture three hours; three credits. Mr. Lawrence.

Selected topics in physics of the upper atmosphere.

571. *Theory of Ionized Gases.* Second semester; lectures three hours; three credits. Prerequisite: consent of the instructor. Mr. Lawrence.

An introduction to the theory of ionized gases and magnetohydrodynamics. Microscopic and macroscopic motions in a gas of charged particles. Interaction of a plasma with external fields. Waves in an ionized gas.

572. *Plasma Physics.* Lecture three hours; three credits. This course may be repeated for credit when the instructor determines that this will not be prohibited by duplication of material. Mr. Feix.

The statistical physics of plasmas, including linear and nonlinear theory will be covered in the session 1965-66.

580. *Colloquium.* All semesters; hours to be arranged.

585. *Research.* Any semester; hours and credits to be arranged.

This course provides the opportunity for the student to investigate a topic for credit which may or may not be later the subject of his thesis. The research is to be carried out under direct supervision of a faculty member.

560. *Thesis.* Hours to be arranged.

660. *Thesis.* Hours to be arranged.

Psychology

Professors Williams[1] *(Head of the Department)* and Lambert. Associate Professors Harcum[2] and Johnston. Assistant Professors Derks, McKenna, Friedman, Norman and Gross. Acting Assistant Professor Squires. Lecturers Ashbury and Hammack. Laboratory Technician Daw.

REQUIREMENTS FOR CONCENTRATION

Degree of Bachelor of Arts: 30 credits in psychology including 301-302, 331, one senior course (403, 404, 410, 431); two or more seminars, 420. In addition, senior seminar, 420, each of the last two semesters and one hour of Research, 421, in the first semester of the senior year, is required. No more than eight credits, nor fewer than three credits, of introductory courses in psychology may be included in the 30 credits.

Degree of Bachelor of Science: Concentration requirements for the B.S. are those listed above for the A.B. but in addition the student must meet the distribution requirements for the B.S. degree (pages 87-88). The preferred science is Biology.

Normal Program for Concentration: A student normally will take 201 and either 202 or 204 in the sophomore year but he may have elected 204 as a freshman; in some cases, then, the student may wish to take 310 or 331 in the second semester of the sophomore year. It is expected that every concentrator will take 301-302 and 331 in the junior year. These courses taken together form the base of the concentration. The senior year emphasizes seminars and research. In the first semester of his senior year each student writes an independent research paper; for this, he registers for one hour of Research, 421, which may be based either on bibliographic or experimental research and may, with approval be taken for more than one hour credit.

Students who expect to enter psychology as a profession are advised to continue graduate study toward the M.A. or the Ph.D. degree. Whether or not they concentrate in psychology in college, they will be expected by most graduate schools to have completed

[1]On leave of absence 1964-1965.
[2]Acting Head of the Department 1964-1965.

the equivalent of 301-302 and 331 as a minimal preparation in experimental psychology and statistics and many graduate schools will require 403 and 404.

INTRODUCTORY COURSES

Of the three courses, 201, 202, 204, no more than two can be counted toward the degree by any student, nor may any one be taken by students who have already taken three or more courses in Psychology, except with special permission of the Head of the Department.

201. *Principles of Psychology.* First semester; lectures three hours; three credits. Mr. Derks and Mr. Friedman.

A study of the basic principles of behavior according to the categories of general psychology: motivation, conditioning, learning, maturation, emotion, thinking, perception, intelligence and the organization of personality. A standard text will be read and a few demonstration experiments performed.

202. *Contemporary Psychology.* Both semesters; lectures three hours; three credits. Prerequisite: 201 or 204 or permission of the instructor. Mr. Derks, Mr. Friedman and Mr. Norman.

An introduction to psychology through the study of recent original literature in various fields. Normally taken after 201 or 204 but may be taken independently and usually not open to upperclassmen except as an elective.

204. *Introduction to Social and Personality Development.* Second semester; lectures three hours; three credits. Mr. McKenna.

An introduction to psychology through the study of the person and his social environment. The psychological attributes of the individual such as motivation, learning, motivation, emotion, thinking, perception, and intelligence will be studied. Emphasis will be placed on fundamental processes of personal growth and adaptation, and their relationships to both general and social psychology.

†211-212. *Sophomore Research Seminar.* Both semesters; hours to be arranged; one credit. Regularly taken with Psychology 201, 202, or 204. Enrollment by invitation only. Mr. McKenna.

An introduction to independent scholarship for the promising and enthusiastic student beginning in Psychology.

INTERMEDIATE COURSES

Prerequisites: one introductory course required for all but 310 and 331.

301-302. *Experimental Psychology.* Continuous course; lectures three hours; laboratory four hours; four credits. Mr. Harcum and Mr. Gross.

This course presents information obtained by psychological research on the various basic attributes of behavior, with emphasis on the methods by which the facts are obtained.

303. *Industrial Psychology.* First semester; lectures three hours; three credits. Mrs. Squires.

Psychology applied to industrial and military organizations. Types and uses of psychological tests in selecting and classifying personnel; methods of efficient work; the design of machines and communication systems for human use; industrial training.

304. *Social Psychology.* Both semesters; lectures three hours; three credits. Mr. Gross and Mr. Norman.

An examination of the effect of a social environment on the perception, motivation, thought, and general behavior of the individual.

305. *Abnormal Psychology.* Both semesters; lectures three hours; three credits. Mr. Johnston and Mr. Norman.

A survey of behavior pathology emphasizing the neuroses and the functional psychoses and their relationship to current conceptions of normal personality functioning. Clinic demonstrations will be held at Eastern State Hospital.

307. *Developmental Psychology.* First semester; lectures three hours; three credits. Mr. McKenna.

A study of data and theory concerning the development of the individual from infancy to maturity. Both cognitive and affective personal processes will be considered.

308. *Psychology of Adolescence.* Second semester; lectures three hours; three credits. Mr. Lambert.

The psychology of personality development from late childhood to maturity.

310. *History of Psychology.* Second semester; lectures three hours; three credits. Mrs. Squires.

From Aristotle to 1930 with special emphasis on the 19th and early 20th century. No prerequisite.

*312. *Educational Psychology.* Both semesters; lectures three hours; three credits. Staff.

A student may sign up once for Educational Psychology credit for Psychology 307, 331, or an advanced seminar in Human Learning, Language and Thought, or Psychological Tests.

331. *Statistics, Measurement and Testing.* Both semesters; lectures two hours, laboratory three hours; three credits. Mr. Friedman.

An introduction to statistics, both descriptive and inferential, including non-parametric tests of significance and simple correlation. Basic principles of psychophysics and psychometric functions and their relation to theory of test construction and item analysis.

ADVANCED COURSES

Prerequisites: Eight hours of intermediate level courses or other evidence of maturity as a student of psychology or of cognate subjects. Courses can be taken for graduate credit. Senior concentrators in psychology are required to take at least one course and one hour of research. They are also required to take one seminar each semester of their senior year.

403. *Systematic Psychology.* First semester; lectures three hours; three credits. Mr. Derks.

A survey of contemporary thought in Psychology with emphasis on its empirical foundations and future possibilities.

404. *Physiological Psychology.* First semester; lectures three hours; three credits. Mr. Harcum.

A general information course designed to account for the various behavioral phenomena in terms of known and inferred physiological mechanisms.

410. *Personality Theory.* Second semester; lectures three hours; three credits. Mr. McKenna.

A survey of major historical and contemporary theories will be supplemented by intensive consideration of one or more current approaches to the understanding of personality. Reference will be made to both experimental and life history data.

431. *Quantitative Methods.* Second semester; lectures two hours; laboratory three hours; three credits. Mr. Gross.

An advanced course in statistics and experimental design.

SEMINARS AND INDEPENDENT STUDY

420. *Topical Seminars.* Both semesters; hours to be arranged; two credits. Staff.

Each semester two or more seminars will be offered covering a variety of topics: perception, animal learning, human learning, language and thought, psychological testing, and great psychologists. Senior concentrators are required to take at least one seminar each semester and are encouraged to take more.

421. *Research Problems.* Both semesters; hours to be arranged; credit according to work undertaken. Staff.

Independent study which may consist of bibliographic or experimental research. Senior concentrators are required to take this course in the fall semester for at least one credit.

†495-496. *Honors.* Continuous course; hours to be arranged; six credits. Prerequisite. Grade average of B during first two years or during junior year and permission of department. Staff.

A student admitted to Honors Study is eligible for an award of Honors in Psychology on graduation. He will ordinarily be enrolled during both semesters of the senior year for three credits each semester. He may under special circumstances be enrolled only in the second semester for six credits.

Honors is independent study comprising (a) supervised reading in the field of the student's major interest, primarily in the original literature; (b) the preparation and presentation by May 1 of an Honors Essay based on the student's own research; and (c) satisfactory completion of a comprehensive examination in the field of the student's major interest.

GRADUATE PROGRAM

A student in his first year of graduate study will enroll in 501-502, and in any advanced senior course (403, 404, 410, 431) which he may not have had. The comprehensive examination in general psychology, 501-502, covers all phases of psychology and serves as an assessment of the student's total preparation for advanced study and advancement to degree candidacy. The first year student may also be permitted to enroll in 521, Research, for one credit or more, so that he may begin to develop his own independent research interests. He must also satisfy the department that he possesses a reading knowledge of a foreign language before he can be admitted to candidacy for the M.A. degree.

The second year student will enroll in 503-504, 521, and in 560, and he may enroll in 510-513. By the beginning of the second year, he must have satisfied the language requirement and be ready to defend a proposal for thesis.

Students are encouraged to use the first graduate year as a fifth-year preparation for continued study toward the Ph.D. whether or not they stay for a second graduate year at the College. Continuance at the College will ordinarily result in the M.A. degree at the end of the second year but the degree itself is not stressed as much as preparation for more advanced study.

†501, 502. *Proseminar in General Psychology.* Continuous course, four credits each semester. Prerequisite: first-year graduate standing. Mr. Derks.

An intensive reading course, based on a prepared syllabus, including handbooks and advanced texts as well as selected original literature. Topics are the functional divisions of behavior; conditioning, learning, remembering, problem solving, perceiving, motivation and emotion. Seminar discussions emphasize methods

and history as well as current knowledge. Supervised research is required. A comprehensive examination is required; it serves as a qualifying examination for further graduate study.

†503, 504. *Seminars in Psychology.* Continuous course; three credits each semester. Prerequisite: second year graduate standing. STAFF.

Selected topics in psychology with emphasis on current literature and original sources.

†510-513. *Practicum in Advanced Abnormal Psychology.* Credit to be arranged. Prerequisite: second year standing. MR. HAMMACK.

This is a series of courses and examinations on a common core of practical experience in the graduate internship program at Eastern State Hospital. 510, Introduction to Testing; 511, Introduction to Projective Techniques; 512, Rorschach Interpretation; and 513, Problems in Diagnosis and Testing. Credit is usually two or three hours per course.

†521. *Research Problems in Psychology.* Credit to be arranged. Prerequisite: required of second year students; approval of department chairman. STAFF.

Course may be repeated. Research may be carried out either at the College or the Eastern State Hospital. It may consist of experiments, research papers, or reviews of original literature.

†560. *Thesis.* Prerequisites: 501-502; second year standing; and candidacy for the M.A. degree. The M.A. candidate must defend a formal proposal for his thesis; this defense will be scheduled no later than the first week of the second year of study.

Secretarial Science

Associate Professor Lott.

The following courses in Shorthand and Typewriting are open to students as elective courses, regardless of their field of concentration. It is strongly recommended that students who plan to work as secretaries begin this course in their junior year or earlier. College credit is given for the courses as indicated. These courses may be taken as part of a student's regular schedule.

Personal Typewriting is open to any student and is taken without credit.

SHORTHAND AND TYPEWRITING

301, 302. *Fundamentals of Shorthand and Typewriting.* Continuous course; Shorthand three hours, Typewriting three hours;[1] three credits each semester. Miss Lott.

Fundamentals of Gregg Shorthand Simplified and the touch system of typewriting. Taking shorthand from dictation and transcribing notes stressed in second semester.

401. *Advanced Shorthand and Secretarial Practices.* First semester. Lectures three hours, typewriting three hours; three credits. Prerequisites: Sec. Sci. 301, 302, or consent of instructor. Miss Lott.

Advanced shorthand and typing with emphasis on developing speed and accuracy in taking dictation and transcribing notes; office machines.

402. *Secretarial Practice.* Second semester. Lectures three hours, laboratory three hours; three credits. Prerequisite: Consent of instructor. Miss Lott.

Training for a professional secretarial career. Correct application of basic skills; use of reference materials; study of duties

[1]The typewriting applies to students who have not had typewriting previously.

and personal requirements for responsible secretaries; use of transcription machines. Shorthand is not a prerequisite.

PERSONAL TYPEWRITING

101. *Personal Typewriting.* Both semesters; two hours a week; no credit. Miss Lott.

This course is designed to give training in the fundamentals of touch typewriting with special emphasis on typing term papers, outlines and business letters.

Sociology and Anthropology

Professor Kernodle *(Head of the Department)*. Associate Professors Altshuler *(Director of Anthropological Studies)*, Gray, and Rhyne. Assistant Professors Gates and Weidman. Instructors Liguori and Meurer. Lecturer McCary.

REQUIREMENTS FOR CONCENTRATION

Concentration in Sociology and Anthropology requires a minimum of thirty-three semester credits: 201, 202, 313, 331, 411, 412, or 495, 496 and Anthropology 203. (With permission of Department Chairman, Anthropology 432 may be substituted for Sociology 313.)

DESCRIPTION OF COURSES

SOCIOLOGY

201, 202.[1] *General Sociology.* Continuous course; lectures three hours; three credits each semester. Staff.

An introduction to the study of human society. The basic concepts of society, culture, and personality and their relationships to one another are developed in the first semester. In the second semester these concepts are used to examine and analyze the major social institutions in human society. Political, economic, religious, and familial institutions are studies as well as additional concepts of social class, caste, and social change.

301. *Social Control.* First semester; lectures three hours; three credits. Soc. 201, 202 or consent of instructor. Mr. Gray.

An analysis of universal techniques of social control used by both small social groups and society as a whole. Considers the question of conformity to social norms and values in the interest of societal stability and continuity as well as that of group and/or individual deviance.

[1]Freshmen may elect this course provided they have two units of secondary school preparation in social science courses, including a minimum of one unit of World History and/or European History, or have satisfactory achievement on the Advanced Placement Tests, or with the approval of the Head of the Department.

302. *Criminology and Penology.* Second semester; lectures three hours; three credits. Mr. Meurer.

A study of the problems of crime, criminals, and criminal justice. Consideration of theories of causation and punishment. The function, success and failure of our prison system, as well as programs of prevention, considered.

303. *Social Problems.* Lectures three hours; three credits; offered each semester. Mr. Liguori and Mr. Meurer.

An objective study of the basic areas in human society which involve value conflict, social disorganization, and personal variation or deviancy. Attention is given to specific problems arising out of our type of social structure and which are not covered by other special courses. Focus on mental illness, religious conflicts in modern society, drug and alcohol and addiction, and other areas of social concern.

304. *Social Structure.* First semester; lectures three hours; three credits. Mr. Rhyne.

A study of the principal structural units of society. Central focus is on the concepts of hierarchy, stratification, class and caste, and the economic, prestige and power orders. Comparative perspectives, historical and cross-cultural, are developed.

305. *Sociology of Education.* First semester; lectures three hours; three credits. Mr. Gray.

A sociological analysis of education as a social institution. The relevance of education to the general social order and the function of education within a cultural context emphasized.

306. *Racial and Cultural Minorities.* Second semester; lectures three hours; three credits. Mr. Liguori.

Distinctions of race, religion, and national origin in contemporary society. The "racial" or "minority group" frame-of-reference in relation to economic and social class organization, political alignments, regional traditions, and psychological tensions. Trends of change. Included in a comparative study of minority problems and race issues in the modern world.

308. *Marriage and the Family.* Second semester; lectures three hours; three credits. Mr. Kernodle.

Analysis of the social relationships between people in courtship, marriage and family situations. Interrelations of family institutions and other parts of social structure. Intensive study of American family structure and relevant examples drawn from other cultures, with the aim of developing mature understanding of, and perspective on, the family.

309. *Population Problems.* First semester; lectures three hours; three credits. Miss Gates.

A consideration of the manner in which populations grow and decline and the effects of such change on society. Emphasis is on theories of population growth, distribution, births, deaths, internal and international migration, bio-social and sociological composition. Included are discussions of the sources of data and techniques and methods of analysis, as well as contemporary population problems.

310. *Sociology of Religion.* Second semester; lectures three hours; three credits. Mr. Meurer.

Conceptions of the supernatural in non-literate societies; an examination of beliefs and practices, with particular reference to the United States; development of religious groups and institutions; relation of religion to social structure and social change.

313. *Sociological Theory.* First semester; lectures three hours; three credits. Mr. Kernodle.

This course aims to present the major sociological theories and hypotheses which are current with some historical perspective which bears directly upon recent trends in social theory. The sources of social concepts in tradition and changing experience; their formal application in framing and executing scientific research are studied. The taken-for-granted versus rational analysis, and values in relation to objectivity constitute the approach. Emphasis on current thought. This course is designed for both sociology majors and other students interested in contemporary social thought in this orientation.

331. *Statistical Methods in Sociology.* Second semester; lectures three hours; laboratory two hours; three credits. Mr. Rhyne.

The applications and limitations of statistics are presented as means of providing tools whereby statistical methods may be recognized, interpreted, and applied in sociological research. Included are considerations of averages, measures of dispersion and variance, simple linear correlation and sampling theory. Emphasis on the logic of procedures, not on mathematical derivations.

342. *The Structure of Power.* First semester; lectures three hours; three credits. Mr. Rhyne.

The organization of power and authority within the social order. Comparison drawn between different power structures in terms of differences in the social order. An investigation of the writings of some of the major theorists (some combination from Marx, Mosca, Lenin, Pareto, Michels, or Sorel and contemporary authors), on social and political power is undertaken.

403. *The Human Community.* First semester; lectures three hours; three credits. Miss Gates.

The study of rural and urban communities with special reference to the complexities of their structure and patterns of change. Emphasis is placed on similarities and general principles of communities and social groups, the influence of size on communities, spatial organization, and special problems of urban life.

405. *Social Movements.* Second semester; lectures three hours; three credits. Mr. Rhyne.

A study of the social and cultural characteristics of contemporary social movements such as liberalism, democracy, socialism, communism, fascism. A critical evaluation is made of the philosophies, social foundations, and organizations of important movements. Emphasis on the interplay of these three factors.

407. *Industrial Society.* First semester; lectures three hours; three credits. Prerequisites: Soc. 201, 202, or consent of the instructor. Mr. Gray.

A sociological analysis of modern industrialized society. The transition from agrarian to industrialized society examined, in-

cluding its specific effects on the American social character and individual personality.

411, 412. *Social Research.* Continuous courses; lectures three hours; three credits each semester. Prerequisites: Soc. 201, 202, 331. STAFF.

415. *Special Problems in Sociology.* For sociology majors only and upon consent of the Head of the Department.

ANTHROPOLOGY

203. *General Anthropology.* First semester; lectures three hours; three credits. MR. ALTSHULER.

An introduction to the field of anthropology. The first half of the semester will be devoted to a discussion of recent theories, methods, and findings in the areas of cultural and human evolution. The second half of the semester will focus upon the major concepts within social anthropology utilizing data from contemporary primitive societies.

204. *Cultural Anthropology.* Second semester; lectures three hours; three credits. MR. ALTSHULER.

The application of the concept of culture to the study of contemporary primitive societies. Institutions in our own society will be analyzed in the light of cross-cultural data. Special attention will be given to the problem of comparative value systems.

306. *Racial and Cultural Minorities.* Second semester; lectures three hours; three credits. MR. LIGUORI.

Distinctions of race, religion, and national origin in contemporary society. The "racial" or "minority group" frame-of-reference in relation to economic and social class organization, political alighments, regional traditions, and psychological tensions. Trends of change. Included is a comparative study of minority problems and race issues in the modern world.

353. *Ethnology of North American Indians.* Semester to be announced; lectures three hours; three credits. MR. ALTSHULER.

A descriptive survey of the major culture areas of native North America. Representative groups of Indians in each area

will be discussed in terms of ecology, racial and linguistic affiliation, social organization, and value orientations. The diffusion of cultural traits from Meso-America, Oceania, and Asia as well as diffusion within North America will be analyzed.

355. *Ethnology of South America.* Semester to be announced; lectures three hours; three credits. STAFF.

A descriptive survey of the major culture areas of South America, analyzed in terms of such variables as race, language, ecology, dominant values, and culture contacts.

359. *Ethnology of Southeast Asia.* Semester to be announced; lectures three hours; three credits. MRS. WEIDMAN.

A descriptive survey of the major ethnic groups of Southeast Asia, analyzed in terms of such variables as ecology, physical type, language, dominant values, and personality structure. The course will also touch upon contemporary problems in Southeast Asia.

361. *Ethnology of Africa.* Semester to be announced; lectures three hours; three credits. MR. ALTSHULER.

A descriptive survey of the major culture areas of Africa, analyzed in terms of such variables as race, language, ecology, dominant values, and culture contacts.

368. *Archaeology of North America.* First semester; lectures three hours, three credits. STAFF.

The prehistoric peopling of the New World; the diffusion of culture from the great civilization of Meso-America to other culture areas; the relation of prehistoric cultures to historic tribes.

370. *The Archaeology of Europe.* Second semester; lectures three hours; three credits. STAFF.

This course will consist of a survey of European Prehistory in the Palaeolithic, Neolithic, Bronze, and Early Iron Age. Material culture will be described in the light of modern archaeological research. Problems will be discussed in relation to environmental change and human adaptation, the movement of peoples in the European area, and the establishment of agriculture and metallurgy. Those elements upon which European Civilization was formed will be emphasized.

372. *The Virginia Indians.* Second semester; lectures three hours; three credits. MR. MCCARY.

A study of the origins and culture growths of the Virginia Indians from 15,000 B.C. to A.D. 1960. Careful attention will be given to the classification of artifacts associated with the various culture periods. Several field trips or digs will be arranged.

428. *Personality in Culture.* Second semester; lectures three hours; three credits. MR. KERNODLE and MR. ALTSHULER.

An intensive study of the relationships between the individual and society. Consequences of variability in socialization, learning, perception. Culture and mental disorders in divergent cultural systems are presented.

430. *Cultural Patterns and Technological Change.* Semester to be announced; lectures three hours; three credits. MRS. WEIDMAN.

An examination of the part played by culture in facilitating or impending technological development in small societies. The approach will be to analyze the interdependence of various factors, such as cultural values, family structure, socialization process, and sustenance pattern, as these bear upon the central theme of technological development. Case studies by anthropologists from a variety of cultures will be presented.

432.[2] *Anthropological Theory.* Semester to be announced; lectures three hours; three credits. MR. ALTSHULER.

An analytical review of the major anthropological theories of the last one hundred years.

450. *Anthropology and Medicine.* Semester to be announced; lectures three hours; three credits. MRS. WEIDMAN.

The medical system of the United States will provide the basic unit of comparison for a review of the ways in which different societies cope with problems of ill-health. The focus will be upon cultural variation in definitions of "illness" and "therapy"

[2]Concentrators may fulfill concentration requirement by taking Anthropology 432 in lieu of Sociology 313 upon written approval of the Head of the Department.

and the manner in which such definitions and practices are interrelated with other aspects of culture.

HONORS STUDY

495-496. *Honors.* Continuous course; hours to be arranged; three credits each semester. STAFF.

Students admitted to Honors Study in Sociology and Anthropology will be enrolled in this course during both semesters of their senior year. The course comprises (a) an exploration of the area of the logic of research along with selected readings in the student's special area of interest; (b) the preparation and presentation by May 1 of an Honors Essay or Project in his special area of interest; and (c) satisfactory performance in a comprehensive oral examination in the field of the student's major interest.

Theatre and Speech

Associate Professors Scammon *(Acting Head of the Department)* and Haak. Assistant Professors Hastings, McConkey, Sawyer and Staroba. Instructors Kirk and Travis.

The Department of Theatre and Speech offers a concentration in Theatre.

REQUIREMENTS FOR CONCENTRATION IN THEATRE

A student must take Theatre 204, 315, 316, 403, 404 and must complete fifteen additional hours in departmental offerings in Theatre. The student may count towards his concentration nine hours of work in related fields subject to the approval of his adviser.

THEATRE

204. *Introduction to Theatre Arts.* Both semesters; lectures three hours; three credits each semester. Staff.

Survey of the development of the theatre from earliest times to the present. Emphasis on the major component parts found in the theatre—playwriting, directing, stagecraft, scene design, costumes, lighting and acting. Lectures, reading and discussion.

*301, 302. *Acting.* Continuous course; lectures three hours; three credits each semester. Mr. Scammon.

Critical analysis and appreciation of acting developed by lectures, reading and discussion, and presentation of individual and group scenes.

305, 306. *Stagecraft.* Continuous course; workshop six hours; three credits each semester. Mr. Haak.

Study and practice in technical problem: working drawings, construction, scene painting, rigging, and handling of scenery, properties, lighting, backstage organization, and sound effects. Students in this course act as technicians for William and Mary Theatre productions.

309, 310. *Design for the Theatre.* Continuous course; studio six hours; three credits each semester. Mr. Hastings.

Basic analysis of the visual elements of theatrical production. Lectures and demonstrations on significant historical periods. Emphasis is placed on watercolor sketching, scene painting, drafting, costume design and construction, and lighting. Students act as technicians for William and Mary Theatre productions.

312. *History and Appreciation of the Motion Picture.* Both semesters; lectures two hours; laboratory two hours; two credits. Mr. Haak.

Survey of the historical development of the film in Europe and America, and of organization, management, and mechanical process in production. In laboratory, historic and current films illustrating lecture material are shown.

315. *History of the Classical and Medieval Theatre.* First semester; lecture three hours; three credits. Required of all concentrators in Theatre. Mr. Scammon.

Study of the forms of the drama, development of the theatre and techniques of the stage of the Greek, Roman and Medieval Ages.

316. *History of the Renaissance, Eighteenth and Nineteenth Century Theatre.* Second semester; lectures three hours; three credits. Required of all concentrators in Theatre. Mr. Scammon.

Study of the forms of the drama, development of the theatre and techniques of the stage in the Renaissance, Eighteenth and Nineteenth centuries.

*317, 318. *Playwriting.* Continuous course; lectures three hours; three credits each semester. Mr. Staroba.

Study of dramatic structure and practice in writing one-act plays for the stage. Composition is accompanied by wide reading and analysis of dramatic literature. Worthy scripts receive experimental production.

*403, 404. *Seminar in Contemporary Drama.* Continuous course; three hours; three credits each semester. Mr. Staroba.

Analysis of late nineteenth and twentieth century drama with special emphasis on forms and styles. Lectures, discussion and research. Required of all concentrators in Theatre, open to others by consent of the instructor.

407, 408. *Direction.* Continuous course; lectures three hours; three credits each semester. Mr. Scammon.

Study and practice in the principles of choosing the play, casting, rehearsals, and performance. Special emphasis on direction of one-act plays.

*411. *Problems in Theatre.* Any semester; hours to be arranged; credit according to work done. Staff.

Directed study on a special problem for the advanced student, arranged on an individual basis.

SPEECH

201. *Public Speaking.* Both semesters; lectures three hours; three credits. Mr. McConkey, Mr. Kirk.

Understanding and application of the principles of public speaking. Analysis of speeches based on organization, content, and delivery.

202. *Voice and Diction.* Both semesters; lectures three hours; three credits. Mr. Travis.

To develop a pleasing and effective voice. Training in articulation, enunciation, pronunciation, quality, time and pitch. Phonetics.

203. *Oral Interpretation.* First semester; lectures three hours; three credits. Mr. Staroba.

To recreate, by reading aloud, the original intention of the author.

204. *Advanced Oral Interpretation.* Second semester; lectures three hours; three credits. Prerequisites: Speech 103 or with the consent of the instructor. Mr. Staroba.

A continuation of Speech 203 with emphasis on advanced and difficult forms of literature.

301. *Foundations of Broadcasting.* First semester; lectures three hours; three credits. Mr. Travis.

An examination and evaluation of radio and television as factors in society. History and organization of the broadcasting industry, government regulation, and audience measurement, with consideration of the role of radio and television in education.

302. *Beginning Broadcast Production.* Second semester; lectures two hours; laboratory two hours; three credits. Mr. Travis.

Analysis of program types, problems of preparation and presentation with laboratory work in the campus radio and television studios.

308. *Speech Composition and Briefing.* Second semester; lectures three hours; three credits. Mr. McConkey.

Study of the special techniques of speech construction as applied to advanced forms of public address, emphasizing structure, arrangement, and style. Special attention given to the application of the principles to persuasion and to argumentation. (Alternates with Speech 310).

309. *Argumentation and Debate.* First semester; lectures three hours; three credits. Mr. McConkey.

Training in the techniques and practices of argumentative speaking, study and analysis of debate propositions, preparation of the brief, research and selection of evidence, and practice in rebuttal and refutation. Lectures and class debating.

310. *Principles of Group Discussion.* Second semester; lectures three hours; three credits. Mr. McConkey.

Study of logical and psychological foundations of discussion as a method of dealing with public questions, considering problems of adjustment, communication and collaborative action in small face-to-face groups. Emphasis on principles, types and methods of discussion. Lectures and practice participation. (Not offered 1964-1965; Alternates with Speech 308).

401. *Studio Operations: Directing for Television.* Continuous course; lectures two hours; laboratory two hours; three credits.

Prerequisites: Speech 301 or 302 or consent of the instructor. Mr. Sawyer.

A study of theory and methods of television production and direction. Detailed examination of cameras, lights, audio, graphics, design and responsibilities of studio and control room personnel.

402. *Television Writing and Production.* Continuous course; lectures two hours; laboratory two hours; three credits. Prerequisites: Speech 401, or 301 and 302, or consent of the instructor. Mr. Sawyer.

A study of the theory and methods of writing, producing and directing for television. Practice is provided in writing various kinds of programs with emphasis on limitations and responsibilities of the medium, and in advanced control room techniques with opportunities to supervise all aspects of television production.

PRE-PROFESSIONAL PROGRAMS

Dentistry, Engineering, Forestry, Medical Technology, Medicine, Public Health Service, and Veterinary Medicine

Pre-professional programs for Dentistry, Engineering, Forestry, Medical Technology, Medicine, Public Health Service, and Veterinary Medicine are offered at William and Mary within a liberal arts framework. Most of these programs lead to a liberal arts degree at the College; some provide entry to a professional school after two or three years, and for certain of these programs there are provisions for an eventual degree from William and Mary.

Pre-Medical Course

For the country at large most medical school graduates now earn their baccalaureate degree; some of these students spend only three years in the liberal arts college and receive the college degree after completing the first year in medical school or, as in the case of William and Mary, upon the completion of the medical course. Certain schools now have combined liberal arts-medical programs wherein the students spend only two years in the liberal arts college.

The pre-medical advisers at William and Mary encourage students to complete four years before going to medical school, for a liberal arts program reaches its full meaning in the final years; to terminate such a program after three years is to lose its unique significance. Future success in medical school and in medical practice depends in great measure on the competence and attitudes developed during the liberal arts program.

Several pre-medical programs are given below for the guidance of the student. Each program satisfies the basic admission requirements of American medical schools. The individual student may, in consultation with a pre-medical adviser, wish to work out

his own program, and he may concentrate in any field that he desires provided he includes in his curriculum the courses requisite for admission to most medical schools. Degree requirements at William and Mary must, of course, be likewise satisfied.

The three-year student who follows the program exactly as outlined on the following pages and who has a minimum quality point average 1 is eligible upon graduation from an accredited medical school for a degree of Bachelor of Science from William and Mary.

Preparation for Medicine, Dentistry, and Public Health Service

Program I[1]

First Year	*1st Sem.*	*2nd Sem.*	*Second Year*	*1st Sem.*	*2nd Sem.*
Eng. 101, 102	3	3	Eng. 201, 202	3	3
Chem. 101, 102	5	5	German or French	3	3
Biol. 101, 102	5	5	Physics 101, 102	5	5
Math. 103, 201 or 201-202	3	3	Chem. 201, 202	4	4
Phys. Ed. 101, 102	1	1	Phys. Ed. 201, 202	1	1
Total Semester Credits	17	17	Total Semester Credits	16	16

Third Year			*Fourth Year*		
Chem. 303-304	4	4	Hist. 101, 102 or Econ. 201, 202 or Govt. 201, 202 or Soc. 201, 202	3	3
German or French	3	3	Advanced Chem.	2	2
Biol. 201, 202	4	4	Electives	7	7
Hist. 101, 102 or Econ. 201, 202 or Govt. 201, 202 or Soc. 201, 202	3	3			
Elective	3	3			
Total Semester Credits	17	17	Total Semester Credits	12	12

[1] Concentration: Chemistry. Degree: B.S.

Preparation for Medicine, Dentistry, and Public Health Service—*Continued*

Program II[1]

First Year	*1st Sem.*	*2nd Sem.*	*Second Year*	*1st Sem.*	*2nd Sem.*
Eng. 101, 102	3	3	Eng. 201, 202	3	3
Math. 103, 201 or 201, 202	3	3	Chem. 201-202	4	4
Biol. 101, 102	5	5	Biol. 201, 202	4	4
Chem. 101, 102	5	5	German or French	3	3
Phys. Ed. 101, 102	1	1	Phys. Ed. 201, 202	1	1
Total Semester Credits	17	17	Total Semester Credits	15	15
Third Year			*Fourth Year*		
German or French	3	3	Hist. 101, 102 or Govt. 201, 202 or Econ. 201, 202 or Soc. 201, 202	3	3
Hist. 101, 102 or Econ. 201, 202 or Govt. 201, 202 or Soc. 201, 202	3	3	Advanced Biol.	4	4
Physics 101, 102	5	5	Electives	8	8
Advanced Biol.	4	—			
Electives	—	4			
Total Semester Credits	15	15	Total Semester Credits	15	15

Program III[2]

First Year			*Second Year*		
Eng. 101, 102	3	3	Eng. 201, 202	3	3
German or French	3	3	German or French	3	3
Biol. 101, 102	5	5	Hist. 101, 102 or Econ. 201, 202 or Govt. 201, 202 or Soc. 201, 202	3	3
Hist. 101, 102 or Econ. 201, 202 or Govt. 201, 202 or Soc. 201, 202	3	3	Chem. 101, 102	5	5
Phys. Ed. 101, 102	1	1	Math. 103, 201 or 201, 202	3	3
			Phys. Ed. 201, 202	1	1
Total Semester Credits	15	15	Total Semester Credits	18	18

[1]Concentration: Biology. Degree: B.S.

[2]Concentration: Topical Major in Pre-Medicine. Degree: B.S. No more than five students may be admitted each year to this topical major. A quality point average of at least 2 is a necessary condition for admission.

PREPARATION FOR MEDICINE, DENTISTRY, AND PUBLIC HEALTH SERVICE—*Continued*

Program III[1]—*Continued*

Third Year	*1st Sem.*	*2nd Sem.*	*Fourth Year*	*1st Sem.*	*2nd Sem.*
Chem. 303, 304	4	4	Biol. 201, 202	4	4
Physics 101, 102	5	5	Psych. 201	4	—
Phil. 201, 202	3	3	Chem. 201, 202	4	4
Electives	4	4	Topical Major Seminar	—	3
			Electives	4	4
Total Semester Credits	16	16	Total Semester Credits	16	15

Program IV.[2] Four- or Three-Year Program

The four-year program here presented meets the requirements of all medical schools and the preferences of many of them. Certain medical schools will accept a student who has completed the first three years of this program.

First Year	*1st Sem.*	*2nd Sem.*	*Second Year*	*1st Sem.*	*2nd Sem.*
Eng. 101, 102	3	3	Eng. 201, 202	3	3
Chem. 101, 102	5	5	Chem. 303, 304	4	4
Biol. 101, 102	5	5	Physics 101, 102	5	5
Math. 103, 201 or 201, 202	3	3	German or French	3	3
Phys. Ed. 101, 102	1	1	Phys. Ed. 201, 202	1	1
Total Semester Credits	17	17	Total Semester Credits	16	16
Third Year			*Fourth Year*		
Hist. 101, 102 or Econ. 201, 202 or Govt. 201, 202 or Soc. 201, 202	3	3	Hist. 101, 102 or Econ. 201, 202 or Govt. 201, 202 or Soc. 201, 202	3	3
Chem. 201, 202	4	4	Chem. 301, 302	4	4
Biol.[3] 201, 202	4	4	Advanced Biol. or Physics	4	4
German or French	3	3			
Electives[4]	3	3			
Total Semester Credits	17	17	Total Semester Credits	11	11

[1]Concentration: Topical Major in Pre-Medicine. Degree: B.S. No more than five students may be admitted each year to this topical major. A quality point average of at least 2 is a necessary condition for admission.

[2]Concentration: Chemistry. Degree: B.S.

[3]Public Health students should substitute Microbiology (Biol. 301, 302).

[4]Three-year students must elect a second Social Science. Four-year students who complete the Math. 103, 201 sequence should elect Math. 202.

Preparation for Engineering

Students may prepare in this College for entrance to the Junior class of any standard engineering school. In making this preparation students will find it necessary to make an early selection of the branch of engineering and the engineering school which they wish to enter in order that their courses may be chosen in accordance with the requirements of their engineering school. It is strongly urged that students seek advice from the Committee on Pre-Engineering Students in adapting their courses to fit the particular branch of engineering they propose to follow.

The course outlined below will be found to meet the general requirements for all branches of engineering.

	Semester Credits
English	6
Mathematics	15 (or 12)
Engineering Drawing and Descriptive Geometry	3 to 6
Physics	10
Chemistry	10

For special branches of engineering the following additional courses are recommended: two years of Physics for Nuclear, Electrical and Mechanical Engineering; an additional year of Chemistry for Chemical, Mining, and Sanitary Engineering; a year of Biology for Sanitary Engineering.

The course for engineering students may be fitted into the regular program leading to a B.S. degree and this procedure will afford the engineering student a broad training for this professional work. The completion of the program ordinarily requires four years, but engineering students who complete three years in residence and fulfill degree requirements, except the completion of a field of concentration, with a minimum quality point average of 1.2, will, upon application, be granted the B.S. degree of this College on graduation from an approved engineering school.

PROGRAM IN COOPERATION WITH LEADING ENGINEERING COLLEGES

The College has combined plan arrangements with the School of Engineering, Columbia University, the School of Engineering Science, The Johns Hopkins University, and the School of Engineering, Rensselaer Polytechnic Institute. Under these arrangements, and by properly planning his studies to include the basic sciences and humanities, a student of high standing may pursue a combined five-year program in which the first three years are spent at the College and the last two at the institution of his choice, leading to the Bachelor's degree from each institution. Thus one year is saved, and the degrees of both institutions and the experience of residence in both are secured. Students desiring to major in Physics should enroll in the Pre-Engineering Program for the freshman year.

The following is the program of courses to be taken at the College of William and Mary.

First Year

	1st Sem.	*2nd Sem.*
Grammar, Composition and Literature (Eng. 101-2)	3	3
Freshman Mathematics (Math. 103-4 or Math. 201-2)	3	3
Elementary General Chemistry (Chem. 101-2)[1]	5	5
General Physics (Phys. 101-2)	5	5
Physical Education (Required Phys. Ed.)	1	1
Total Semester Credits	17	17

Second Year

English Literature (Eng. 201-2)	3	3
Calculus (Math. 201-2 or Math. 203-302)	3	3
Foreign Language	3	3
European History (Hist. 101-2), Government (Govt. 201-2) or Sociology (Soc. 201-2)	3	3
Modern Physics (Phys. 203)	4	—
Geometrical and Physical Optics (Phys. 207)	—	4
Physical Education (Required Phys. Ed.)	1	1
Total Semester Credits	17	17

[1]Physics majors may postpone chemistry until the sophomore year.

THIRD YEAR

	1st Sem.	*2nd Sem.*
Foreign Language	3	3
Mathematics 203 or 302	3	—
Mathematical Physics 300 or 401 or Mathematics 302	—	3
Engineering Drawing and Descriptive Geometry (Ind. Arts 201-2)	3	3
Electricity and Magnetism (Phys. 303)	4	—
Alternating Current Circuits (Phys. 304)	—	4
Engineering Mechanics[1] (Phys. 307)	—	3
or Analytical Chemistry (Chem. 201-2)	4	4
Principles of economics (Econ. 201-2)	3	3
Mechanics 208	3	—
	—	—
Total Semester Credits	19 or 20	19 or 20

Students preparing for special programs not mentioned above should consult with the Chairman of the Committee on Pre-Engineering Students.

[1]Students preparing for Chemical Engineering or Metallurgy should elect Analytical Chemistry and omit Engineering Mechanics. For Civil, Mechanical, Nuclear and Electrical Engineering programs, Engineering Mechanics should be elected and Analytical Chemistry omitted. Those who elect Analytical Chemistry may find it desirable to include it in the second year program, postponing European History to the third year.

Preparation for Teaching the Natural Sciences and Mathematics

This interdepartmental concentration (Topical Major in Science), which leads to the Bachelor of Science degree enables a student in a four-year course of study to prepare for certification for teaching on the secondary level in general science and in two of the fields in the area of the natural sciences and mathematics.

Requirements for Concentration

(a) A one-year course in *three* of the following natural sciences: Biology, Chemistry, Geology and Physics for a total of 30 semester hours.

(b) A one-year course in mathematics.

(c) An additional eight semester hours in each of two of the four sciences in (a) above; or, an additional eight semester hours in one science and an additional 12 semester hours in mathematics. (Counting freshman level courses, the student is thus required to complete either 18 hours in mathematics and 18 hours in one natural science or 18 hours in each of two natural sciences and six hours in mathematics. The two departments selected by the student in which to meet this requirement shall together constitute his Field of Concentration.)

(d) A total of 36 quality points in the student's Field of Concentration.

Typical Program of Courses

First Year		*Second Year*	
Eng. 101, 102 or 103, 104	6	Eng. 201, 202	6
1st Science 100-level	10	3rd Science 100-level	10
2nd Science 100-level[1]	10	Econ. 201, 202, Govt. 201, 202, Hist. 101, 102, or Soc. 201, 202	6
Mathematics	6	Foreign Language	6
Phys. Ed.	2	Electives[2]	6
		Phys. Ed.	2
Total Semester Credits	34	Total Semester Credits	36

[1]A student may postpone one of the freshman level science courses to the junior or senior year, substituting a distribution course for the second science in the freshman year.

[2]A student may take the second natural science or mathematics in his sophomore year and postpone the electives to his junior or senior year.

Third Year		*Fourth Year*	
Econ. 201, 202, Govt. 201, 202, Hist. 101, 102, or Soc. 201, 202	6	Natural Science	8
Foreign Language	6	or Mathematics	6
Natural Science	8	Electives	16-24
or Mathematics	6		
Electives[1]	6-14		
Total Semester Credits	32	Total Semester Credits	30

[1]Students desiring to qualify for certification in Virginia or in other states should take as electives, beginning in the junior year, the required professional courses, including student teaching.

Preparation for Forestry

Students may prepare at William and Mary for entrance into forestry schools at other institutions. Here they obtain a sound education in the humanities and other liberal arts in addition to the sciences basic to forestry.

The College offers a special program in cooperation with the School of Forestry of Duke University. Upon completion of a five-year coordinated course of study the student will have earned the Bachelor of Science degree from William and Mary and the professional degree of Master of Forestry from Duke University. The student devotes the last two years of his program to the professional forestry curriculum of his choice at Duke, where forestry courses are open only to seniors and to graduate students.

Candidates for the forestry program should indicate to the Dean of Admissions of the College of William and Mary that they wish to apply for the Liberal Arts-Forestry curriculum. Admission to the College is granted under the same conditions as for other curricula. At the end of the first semester of the third year the College will recommend qualified students for admission to the Duke School of Forestry. Each recommendation will be accompanied by the student's application for admission and by a transcript of his academic record at William and Mary. No application need be made to the School of Forestry prior to this time.

Pre-Forestry Curriculum at William and Mary.

First Year

	1st Sem.	*2nd Sem.*
Eng. 101, 102	3	3
French or German	3	3
Biol. 101, 102	5	5
Math. 103, 201 or 201, 202	3	3
Phys. Ed. 101, 102	1	1
	15	15

Second Year

	1st Sem.	*2nd Sem.*
Eng. 201, 202	3	3
French or German	3	3
Chem. 101, 102	5	5
Biol. 401; Biol. 206	4	4
Phys. Ed. 201, 202	1	1
	16	16

Third Year

Econ. 201, 202	3	3
Govt. 201, 202	3	3
Biol. 301 or Elective Biology	4	—
Biol. 408	—	4
Physics 101, 102	5	5
	15	15

INSTITUTE OF EARLY AMERICAN HISTORY AND CULTURE

THE INSTITUTE of Early American History and Culture was established in 1943 by the union of certain historical research and publication activities of the College of William and Mary and Colonial Williamsburg, Incorporated. The College contributed *The William and Mary Quarterly,* a historical periodical published since 1892, and the use of the rich resources of its library, while Colonial Williamsburg contributed the Williamsburg Restoration Historical Studies, its program of research fellowships, and the use of its important manuscript collections. The board of editors of the *Quarterly* and the Restoration's advisory council of historians were merged to form the first Council of the Institute, an advisory board drawn from the nation at large. The membership of the present Council is given below.

By promoting the study of early American history, the Institute aims, in the words of its Constitution, "to preserve and advance understanding of the enduring contributions of the colonists and the founders of the Republic." It does so by the publication of significant books and articles in the field of early American history from the beginnings through the Jeffersonian era, by teaching and consultation; and by the acquisition of research materials on microfilm. Its collection of early American newspapers on film is one of the largest extant. Its publication of the *Virginia Gazette Index* (1950) provides the only comprehensive index to a series of important colonial newspapers so far made available to researchers.

The Institute cooperates in many ways and to the fullest possible extent with historical activities of both the College and Colonial Williamsburg, but it is an autonomous organization with a separate and distinct program which is national rather than local. Its books, published over a joint imprint with the University of North Carolina Press, and the articles appearing in *The William and Mary Quarterly* are directed to the widest possible audience.

The director of the Institute is Lester J. Cappon. On his staff are: Robert J. Taylor, visiting editor of publications in charge of the book publication program,[1] and Susan Lee Foard, assistant editor; William W. Abbot, editor of *The William and Mary Quarterly;* Elizabeth L. Suttell, associate editor of the *Quarterly;* Ira D. Gruber and Gordon S. Wood, fellows; Thad W. Tate, Jr., book review editor of the *Quarterly.* Mr. Cappon is also archival consultant of Colonial Williamsburg, and Messrs. Abbot, Cappon, Taylor, Tate, Gruber, and Wood are members of the Department of History at the College.

The offices of the Institute and of *The William and Mary Quarterly* are on the Duke of Gloucester Street near the College campus. The postal address is Box 220, Williamsburg, Virginia 23185.

The sponsors of the Institute are Davis Y. Paschall, President of the College of William and Mary, and Carlisle H. Humelsine, President of Colonial Williamsburg, Incorporated.

INSTITUTE OF EARLY AMERICAN HISTORY AND CULTURE MEMBERSHIP AND COMMITTEES OF THE COUNCIL

1964-65

Term Expires May 1965

Whitfield J. Bell, Jr., *American Philosophical Society* (Chairman)
Francis L. Berkeley, Jr., *University of Virginia* (Secretary)
Alfred A. Knopf, *New York City*
Edmund S. Morgan, *Yale University* (Vice-chairman)
Robert R. Palmer, *Washington University*

Term Expires May 1966

Douglass Adair, *Claremont College*
Edward P. Alexander, *Colonial Williamsburg, Incorporated*
Oliver W. Holmes, *National Historical Publications Commission*
John E. Pomfret, *Henry E. Huntington Library*
J. Russell Wiggins, *Washington, D. C.*

[1]James Morton Smith is on leave, 1964-1965.

Term Expires May 1967

Bernard Bailyn, *Harvard University*
Brooke Hindle, *New York University*
Merrill Jensen, *University of Wisconsin*
Caroline Robbins, *Bryn Mawr College*
Walter M. Whitehill, *Boston Athenaeum*

Ex Officio

Davis Y. Paschall, *College of William and Mary*
Carlisle H. Humelsine, *Colonial Williamsburg, Incorporated*

Members of the Executive Committee

Whitfield J. Bell, Jr., Chairman
Oliver W. Holmes
Edmund S. Morgan
Alfred A. Knopf
Walter M. Whitehill
Davis Y. Paschall
Carlisle H. Humelsine

Publications Committee: Messrs. Alexander, Bell, Holmes, Morgan, Palmer, Pomfret, Whitehill, Wiggins.

William and Mary Quarterly Board: Miss Robbins, Messrs. Adair, Bailyn, Berkeley, Cappon, Hindle, Jensen, Knopf.

Operation and Management of Space Laboratory

Under the provisions of legislation enacted at the 1962 Session of the General Assembly, the College of William and Mary, the University of Virginia, and Virginia Polytechnic Institute have constituted a joint project, entitled Virginia Associated Research Center, for the operation and management of a space radiation effects laboratory in the vicinity of Hampton Roads, in cooperation with the National Aeronautics and Space Administration. NASA will construct the laboratory costing approximately twelve million dollars.

This opportunity, together with the new Natural Science facilities at the College, will enhance the graduate program in physics, biology, chemistry and mathematics at William and Mary, and intensify space research for the nation.

THE MARSHALL-WYTHE SCHOOL OF GOVERNMENT AND CITIZENSHIP

THE MARSHALL-WYTHE School of Government and Citizenship consists of the Departments of Business Administration, Economics, Government, History, Sociology and Anthropology, and is therefore included in the Division of Social Sciences. In 1926, through the generosity of James Goold Cutler, Esq., Rochester, New York, a fund of approximately $100,000 was established, the income to be applied toward the salary of the John Marshall Professor of Government and Citizenship and for other purposes.

The School conducts a symposium, known as the Marshall-Wythe Symposium every fortnight during the second semester. One semester credit is given in this course, and a student may, in successive terms, receive a maximum of two credits.

THE COLLEGE NEWS BUREAU

THE INFORMATIONAL and public relations program of the College is carried on under the general direction of the Office of Development. It is implemented by the College News Bureau, which is under the supervision of a full-time editor. The News Bureau is the focal point for all information from the College to the general public. The bureau prepares news releases on all College activities, maintains the institution's relationships with press, radio and television media, and in other appropriate ways seeks to interpret the accomplishments of the campus community to the public.

The News Bureau also is a central depository for detailed biographical data on all students currently enrolled in the College, as well as biographical and professional data on all of the faculty currently in residence. It maintains a growing file of clippings, manuscripts and photographs relating to the day-to-day activities of the campus community which is becoming a useful source of history of the College's life. It also distributes information in answer to inquiries from prospective students, educators, historians and other interested persons who write from every state and many foreign countries.

THE 1965 SUMMER SESSION

THE SUMMER SESSION is planned to provide courses for undergraduate and graduate students enrolled in liberal arts programs, to provide professional training for teachers, counselors, principals, supervisors, and superintendents, and to furnish basic instruction in pre-professional programs, such as Forestry, Engineering, Medicine, Dentistry, Law, and the Ministry. Provision is made also for meeting the educational needs of members of the armed services and of high school graduates who wish to begin college work in the summer in order to accelerate their completion of the four-year college program.

The summer session is an integral part of the educational program of the College of William and Mary, and the opportunities for study are essentially the same as in the regular academic session. Courses are carefully selected from the regular session curriculum and are supplemented by programs specifically designed to meet the interests and needs of students who attend the summer session. Instruction is provided by regular members of the William and Mary faculty supplemented by specialists from other institutions.

For the most part, degree requirements, supervision of students, college regulations, the Honor System, and the like, set forth elsewhere in this catalogue, apply in the summer session. Admission to the summer session does not assure admission to a degree program. Summer session students who wish to become candidates for degrees at William and Mary must make application to the Dean of Admissions.

The 1965 summer session will consist of a six-week term followed by a three-week post session. Students may enroll for either or both terms. Certain courses in Law, Science and Mathematics will be taught on a nine-week basis. Additional workshops for teachers may be taken from three- and six-week terms. Six semester hours will constitute a full course load for the six-week term and the three hours will be considered a full load during the post session.

SUMMER SESSION CALENDAR

1965

June 13	Summer Band School*
June 14	Registration for First Session
June 15	Classes begin
June 21	Institute for Teachers of Science* begins
July 23	End of First Session
July 26	Post Session begins
August 13	Post Session ends
August 14	Summer Commencement

FEES AND EXPENSES

Tuition for the summer session is comparable to that charged students enrolled during the regular session. The unit for computing the tuition charge is the semester hour of credit. Tuition is $12.00 per semester hour for Virginia residents and $20.00 per semester hour for non-residents. There are no additional special fees except a registration fee of $3.00 per student, and a laboratory fee in laboratory courses.

All students of the College, both men and women, are required to room in college dormitories, except graduate students and those commuting daily from their homes. The weekly rates for rooms vary according to the accommodations needed by students: for men, the rates range from $4.00 to $6.50 per person; for women, $4.75 to $6.75 per person. A limited number of accommodations for married couples may be found in private homes and apartments near the College. Students are urged to reserve their rooms as far in advance as possible.

Meals are provided in the Campus Center on an a la carte plan. Expenditures for food vary with individual appetites, but the weekly average is approximately fifteen dollars.

*Special bulletins for these programs are available at the office of the Director of the Summer Session, College of William and Mary.

All freshmen and sophomore students who are regularly enrolled at William and Mary, or any other college, and who live in the dormitories, are expected to take their meals in the Campus Center. Meal Tickets are available.

Students should allow ten to fifteen dollars for text books; other expenses such as travel, recreation, clothing, and the like depend upon the individual.

INFORMATION ABOUT THE SUMMER SESSION

Besides the Summer Session catalogue which is distributed in February, there are a number of special bulletins available that describe in detail certain opportunities for students in the College of William and Mary. A preliminary announcement which lists all courses and instructors is available in January. Bulletins of information on the Summer Session may be secured by writing to the Director of Summer Session, College of William and Mary, Williamsburg, Virginia.

THE EVENING COLLEGE

THE COLLEGE OF WILLIAM AND MARY in September, 1952, initiated a program of evening meetings of courses to enable residents of Tidewater communities and military personnel stationed in the area to obtain residence credits which might be applied toward a degree at William and Mary or at other accredited institutions.

Enrollment during the first semester of the current year totalled 447 individuals. About one-half of the students were school administrators and teachers from the Tidewater area.

The essential requirement for admission to the Evening College is graduation from an accredited secondary school with a minimum of sixteen acceptable units or the equivalent of this requirement as shown by examination. All applicants for admission, other than former students in good standing at the College of William and Mary, must file an application in person at the Evening College office during pre-registration periods.

Transcripts of high school academic records or transcripts of work taken at other colleges must be furnished by all new applicants not later than one week prior to the regular registration date each semester. These transcripts must be requested by the applicant and must be mailed directly to the Director of the Evening College by the issuing high school or college.

The College of William and Mary will not take action on an application for admission until all application forms, transcripts, and test scores (when required) have been received and processed. Tests of the College Entrance Examination Board may be required at the discretion of the College. Tests may include the Graduate Record Examination, the Scholastic Aptitude Tests, the General Educational Development Test, or other tests deemed appropriate by the College.

Applicants who are eligible for admission to the Evening College are notified by mail. Applicants whose academic records are deemed unsatisfactory by the College may be permitted to take the tests noted above during a testing period. The cost of such tests is borne by the applicant. The College reserves the right to reject any applicant whose performance on such tests suggests to the examiners that he is not qualified to engage in the

courses in which he wishes to enroll. Such applicants are advised by mail as soon as practicable after tests scores have been reviewed.

Admission to the Evening College may not be construed as automatically admitting the applicant to the day session or to any other division or branch of the College of William and Mary.

Evening College undergraduate students are classified as nonmatriculated students prior to acceptance as degree candidates. Nonmatriculated students who wish to earn a degree at William and Mary must make application for admission as degree candidates prior to the completion of 30 credits of undergraduate work. Graduate degree candidates must have obtained admission prior to the completion of the first course.

Courses are taught by members of the College faculty with some assistance from other qualified instructors.

Tuition fees for the 1964-65 academic year were $14 per semester credit, payable upon registration. Some of the military students have enrolled under provisions of Armed Forces education plans in which the Services contribute a portion of the tuition fees.

A special bulletin giving full details concerning the Evening College may be obtained by writing to the Director of the Evening College, College of William and Mary.

THE EXTENSION DIVISION

The Extension Division was developed in order to provide college courses for adults in Tidewater Virginia who could not avail themselves of educational opportunities on the campus. Introductory and advanced courses in Liberal Arts and Education are included with a limited offering in Business. Noncredit courses, seminars and discussion groups may also be organized upon request.

With few exceptions, courses offered for credit meet weekly for sixteen sessions of three hours each and carry three semester hours of academic credit. Most classes meet during the evening hours. Credits earned in Extension courses may be applied toward degrees at the College of William and Mary *if the student has been admitted to candidacy for a degree and the course is approved by the student's advisor as meeting degree requirements.* Students who wish to transfer credits to another college must also obtain the approval of their college or their advisor.

Credits for advanced courses in Education may be taken for graduate credit. According to regulations of the Southern Association of Colleges and Schools, a maximum of twelve semester hours of graduate Extension credits may be applied toward the Master's degree. All courses to be included in graduate degree programs should be approved by the student's graduate advisor.

Permanent Extension Centers are maintained at Hampton, Henrico, Hopewell, Portsmouth and Virginia Beach. Courses are also available each semester at Fort Eustis, Fort Lee, Fort Story, Langley Air Force Base, Naval Air Station-Oceana and the Little Creek Amphibious Base. Courses may be organized in other Tidewater communities by request.

Registration for Extension courses is held at the first class meeting unless otherwise specified in the Extension Bulletin. Students enrolling in Extension courses for the first time must present evidence of high school graduation or of good standing at the college previously attended. In situations where reasonable doubt of the student's qualifications may exist, additional evidence such as test results or reports of previous academic achievement may be requested in order to establish eligibility. The College

reserves the right to reject any applicant whose test results and previous background suggest that he is not qualified for the course for which he has supplied.

Bulletins which list courses available in Extension are prepared each semester and are available approximately one month prior to the beginning of classes. These bulletins may be obtained by contacting the Director of Extension, College of William and Mary, Williamsburg, Virginia.

THE WILLIAM AND MARY ENDOWMENT FUND

THE ENDOWMENT ASSOCIATION

The affairs of the Association, a private corporation, are conducted by a self-perpetuating elected Board of from nine to fifteen members. The present membership of the Board is as follows:

Alvin Duke Chandler, '22x, Williamsburg, *President*
Robert T. Armistead, '36, Williamsburg, *Vice-President*
J. D. Carneal, Jr., '20, Richmond
Mrs. Alfred I. duPont, Wilmington, Delaware
W. Brooks George, '32, Richmond
Henry Clay Hofheimer, II, Norfolk
Davis Y. Paschall, '32, Williamsburg
William L. Person, '24, Williamsburg
J. Garland Pollard, Jr., '23, Somers
James M. Robertson, '29, Norfolk
Hugh H. Sisson, Jr., Hightstown, New Jersey
H. Hudnall Ware, '22x, Richmond
Walter J. Zable, '37, San Diego, California

Vernon L. Nunn, *Secretary-Treasurer*

The income from the Association's funds is used to support scholarships, Chancellor professorships, and other general College purposes. The objectives of the Endowment Association are contained in the charter and by-laws, copies of which may be obtained on request.

THE FRIENDS OF THE COLLEGE

The Friends of the College number forty. Annual memberships of this organization are $100; life memberships, $1,000. The income of the Friends is spent currently for a variety of purposes at the discretion of the President of the College. Recurring expenditures are for the support of concerts, lectures, the Musical Records Collection, the War Memorial Book Shelf, undergraduate activities and scholarship aid. The annual bulletin of the Friends may be obtained on request.

GIFTS AND BEQUESTS

Although the College of William and Mary derives a certain amount of its financial support from appropriations from public funds by the General Assembly of the Commonwealth of Virginia, the remainder of the money required for its operation—and particularly for the qualitative development of its research and educational services—must come from endowment funds, gifts, bequests, and other types of support from a variety of nontax or nonpublic sources. In a period of steadily increasing demands for additional or enlarged services of various types, all colleges—those which are entirely privately supported, those which are entirely state-supported, and those which, like the College of William and Mary, rely on both public and private funds—must look to their friends, alumni, and others interested in the continued growth of higher learning, for the economic assistance necessary to support their educational program.

This economic assistance may take the form of single or continuing grants from educational foundations, or from private corporations, or from individuals. The individual gift may be either a lifetime gift or a testamentary gift or bequest. It may be a general gift, to be used for such purposes as the College may itself determine; or it may be a specific gift for a purpose desired by the donor or proposed by the College. It may be a gift large enough to cover the entire cost of establishing and maintaining a particular structure or activity, or it may be an integral part of a fund representing several gifts whose aggregate will suffice to meet the necessary cost of the total project.

A wide variety of essential activities of the College may be aided fundamentally by such gifts and bequests. Scholarships and fellowships, with their attendant supplemental grants to the College to cover the extra costs incurred in accepting such scholarship and fellowship holders as students, are one of the most general categories of such private support. Similarly, grants in aid of staff salaries, including the creation of endowed chairs and of distinguished professorships, are increasingly needed by institutions such as the College of William and Mary, to meet the competition of private industry and other educational agencies which are continually bidding for the services of such trained personnel.

Research grants, funds to finance the purchase of rare manuscripts and related scholarly materials, exchange professorships and scholarships to permit students and faculty from the College to study abroad and to bring to this campus their counterparts from foreign universities, are other continually needed contributions. Finally, the College has occasionally benefited from gifts for a variety of major capital projects (e.g., buildings) for which future gifts and bequests will be welcomed.

Gifts. Lifetime gifts, or gifts by corporations or foundations, should be made to The Endowment Association of the College of William and Mary in Virginia, Inc.

Any kind of property, real or personal, may be the subject of a gift and only such form as is required to pass title is necessary. If the gift consists of real property, the title will be passed by deed; if it consists of cash or unregistered bonds, the gift is consummated by delivery of the property; or if stocks, by delivery of properly endorsed stock certificates. Unless restricted, the use of gifts is at the discretion of the Board of The Endowment Association. Usually the proceeds, conservatively invested, are added to the permanent endowment of the College of William and Mary. The donor may, however, restrict the use of any gift and designate definitely the purposes for which it shall be used. In such cases, the transfer of property would be accomplished by a letter or other documents describing in detail the purposes for which the proceeds of the gift are to be used and when accepted by The Endowment Association the term or conditions set out therein become binding upon it.

Bequests. Testamentary gifts, or bequests, should be made to The Endowment Association of the College of William and Mary in Virginia, Inc. Bequests may be made by setting their provisions forth in a will; or, if a will has already been drawn, they may be expressed in a codicil to the will. The following forms for wills or codicils are suggested:

GENERAL

I (*give,* if personal property; *devise,* if real property) and bequeath to The Endowment Association of the College of William and Mary in Virginia, Inc., a private corporation existing under the laws of the Commonwealth of Virginia and located in the

City of Williamsburg, Virginia, and to its successors forever, the sum of.....dollars (or otherwise describe the gifts) for the general purposes and uses of the College of William and Mary in Virginia at the discretion of The Endowment Association of the College of William and Mary in Virginia, Inc.

SPECIFIC

I (*give,* if personal property; *devise,* if real property) and bequeath to The Endowment Association of the College of William and Mary in Virginia, Inc., a private corporation existing under the laws of the Commonwealth of Virginia and located in the City of Williamsburg, Virginia, and to its successors forever, the sum of.....dollars (or otherwise described the gift) and direct that the principal thereof and/or income therefrom shall be used for the following purposes, viz. (here describe the use desired).

CODICIL

Having hereinbefore made by last Will and Testament dated ....., and being of sound mind, I hereby make, publish, and declare the following codicil thereto; (here insert clause in same form as if it had been included in the body of the Will). Except as hereinbefore changed, I hereby ratify, confirm and republish my said last Will and Testament.

SCHOLARSHIPS, FELLOWSHIPS, LOANS, AND STUDENT EMPLOYMENT

The College offers financial assistance to deserving students who wish to defray a part of their total college expense. The types of aid include scholarships, fellowships, grants-in-aid, loans and student employment. Inquiries and applications for financial assistance should be submitted to the Director of Student Aid. Students in residence who wish to apply or re-apply for aid must do so prior to May 1 of the session preceding the one for which they hope to obtain aid. Entering students must present their applications before August 1 of the year they expect to enter the College. No application for aid will be considered until the student has been selected for admission.

All awards, unless otherwise stated, are made on the bases of need, character, and scholastic ability, and are made for one year only. Recipients of these awards must be in residence at the College.

SCHOLARSHIPS

Students holding scholarships which exempt them from the payment of college fees must live in the residence halls owned by the College, and must board in the College Refectory.

At the beginning of the first semester, one-half of the value of a scholarship is credited to the student's account; the remainder is credited at the beginning of the second semester, provided the student has satisfied the academic and other requirements set forth in the Notification of Award.

All students who hold scholarships must make a quality point average of 1.0, or better, during the first semester to have the award continued for the second semester.

Scholarships are awarded for one year only, but may be renewed for each succeeding year. In order to renew a scholarship for the following year, it is necessary that the holder re-apply to the Director of Student Aid by May 1. The minimum academic requirement for renewal is a quality point average of 1.0 for the school year. In addition, the student must have a good conduct record and give evidence of continued financial need.

Scholarships are available to able and deserving men and women residents of Virginia. A limited number of scholarships are also available to out-of-state male residents. Some of the scholarships open to undergraduate students are described below:

1. Unfunded Scholarships valued up to $200 each for an academic year. These scholarships are available to Virginia students who meet the qualifications of scholastic achievements, character, and need.
2. Thomas Ball Scholarship Fund, established to aid students from Tidewater Virginia and particularly from the Northern Neck of Virginia. These awards vary from $100 to $500 for an academic year.
3. Cary T. Grayson Scholarships valued up to $200 for an academic year. These scholarships are available to men students, Virginians and non-Virginians alike.
4. The Greene Scholarships, valued from $100 to $500 per academic year, available on the basis of scholastic excellence. To be eligible the applicant is expected to be in the upper third of his senior class in secondary school.
5. The Cromwell Scholarships, valued from $100 to $300 per academic year, awarded on the bases of academic excellence and need.
6. Teacher Training Scholarships are available to students who are residents of Virginia and plan to teach in the Virginia Public Schools. These scholarships are valued at $350 per academic year. Address all inquiries to Dean Howard Holland, School of Education.
7. Science Contest Scholarships. Eight awards made annually to entering Virginia male students on basis of competitive written examination in each of four fields: biology, chemistry, mathematics, and physics. The first place award in each field is valued at $500 for the session; the second place award in each field is valued at $300 for the session. These scholarships are renewable for three succeeding years if the recipient achieves a creditable record.
8. Modern Language Scholarships. The Modern Language Association of Virginia conducts a yearly tournament in French and Spanish in the high schools of Virginia. The

College of William and Mary offers two scholarships of $100 each, one for French and one for Spanish. These scholarships are open to men only.

9. Latin Tournament Scholarships. The Virginia Classical Association conducts annually a Latin Tournament for Virginia high school students. The College of William and Mary offers one scholarship valued at $200 to a senior winner in one of the several classes of entrants in this tournament. The scholarship is renewable after the freshman year, if the recipient achieves a creditable record.

Foreign Exchange Scholarships

University of Exeter Scholarship. The College of William and Mary has entered into an agreement with Exeter University for an annual exchange of students. Under the plan the College of William and Mary will each year send one of its outstanding students abroad for a year's study at Exeter University, and a student from Exeter University will come to the College of William and Mary for the same period. All college fees (tuition, registration, room and board) will be waived for the exchange student who will live in one of the Residence Halls of Exeter University. The Exeter University Scholarship is open to students who are about to enter their junior year or who are members of the graduating class.

Drapers' Company Scholarship. Each year an outstanding graduate of William and Mary will be selected by the College for a two-year period of study at Oxford, Cambridge or at another British university. This is made possible by an agreement between William and Mary and the Drapers' Company of London. In exchange a British student, preferably from Bancroft's School, will be selected by the Drapers' Company for a two-year period of undergraduate study toward a Bachelor's degree at the College of William and Mary. This exchange program will provide the cost of tuition and living expenses for each student.

FINANCIAL AID FOR GRADUATE AND PROFESSIONAL STUDENTS

The Department of Biology offers for each academic session five graduate assistantships of $1,500 each plus applicable tuition.

In addition, there are available several research assistantships with stipends of $2,400 to $3,000 each for twelve months. Students holding these grants will be assigned research projects on a half-time basis.

The School of Education offers three assistantships of $1,500 each plus applicable tuition on an academic session basis.

The Department of History offers three $2,000 assistantships plus applicable tuition, two $1,500 assistantships plus applicable tuition, and two $1,500 fellowships in its combined Master of Arts and Historical Administration program. The fellowships are also available to students enrolled in the Master of Arts program. Other aids available to graduate students in history are the fellowships sponsored by the Society of the Cincinnati and the Order of First Families of Virginia. These two grants are awarded annually in the amounts of $500 and $300 respectively.

The School of Marine Science makes available research assistantships to students working in the Virginia Institute of Marine Science at Gloucester Point, Virginia. These research assistantships carry a stipend of $200 per month on a twelve-month basis.

The Marshall-Wythe School of Law has a number of scholarships available to eligible students. Three W.A.R. Goodwin Scholarships valued at $3,000 each over a three-year period are available to entering students, and numerous Goodwin Grants valued at $500 each are awarded to upperclassmen on the basis of need and academic achievement. The Matthew Gault Emery Law Scholarship is valued at $300, and the Law and Taxation Scholarship is valued at $500.

The Department of Mathematics offers two fellowships of $1,200 each, and six assistantships valued at $1,500 each plus applicable tuition per academic session.

The Department of Physical Education for Men offers one assistantship of $1,500 plus applicable tuition on an academic session basis.

The Department of Physics offers one fellowship of $2,000 for the academic session, and six graduate assistantships of $1,500 each plus applicable tuition for the academic session. Available also are twelve research fellowships valued at $3,500 each on a

twelve-month basis. Students holding these grants will be assigned laboratory or research work. Graduate fellowships providing stipends ranging up to $2,500 are available. These include National Science Foundation Cooperative Fellowships and those from other government agencies. Summer fellowships paying up to $600 are also available to graduate teaching assistants.

The Department of Psychology offers a work-study plan which combines clinical and experimental psychology. Participants in this program work on a half-time basis as Interns in Psychology at Eastern State Hospital in Williamsburg for which they receive a stipend of $115 per month. The Department offers also two graduate assistantships valued at $1,500 each plus tuition for the academic session. The Department also has available tuition fellowships.

MERIT SCHOLARSHIPS

The Merit Scholarships are awarded on the basis of academic achievement to the ranking undergraduate scholars of the College and are not available to entering students.

Each of these scholarships exempts the student from tuition fees to the extent of $75.00 (if the recipient is a Virginia resident), or $100.00 (if the recipient is not a Virginia resident), except that the Elisha Parmele Scholarship and the William Arthur Maddox Scholarship amount to $100.00 and $75.00 respectively, regardless of residence.

One-half of the scholarship is credited to the student's account at the beginning of the first semester and one-half at the beginning of the second. Failure to remain in residence at the College for the second semester forfeits one-half the value of the scholarship.

Award	*Donor or Source*
Henry Eastman Bennett	Loren Eastman Bennett, Mrs. Henry E. Bennett, and Mrs. William George Guy
George Blow	Captain George P. Blow
President Bryan	Friends of the College of William and Mary
"King" Carter	Founded by Robert Carter, revived through the efforts of Mrs. Malbon G. Richardson

Award	*Donor or Source*
Chancellor	Hugh Blair Grigsby
John Archer Coke	John Archer Coke and Mrs. Elsie Coke Flanagan
Edward Coles	Mary Roberts Coles and Mrs. George S. Robins
Corcoran	W. W. Corcoran
Jackson W. Davis	General Education Board of the Rockefeller Foundation and Friends of the College
Graves	Rev. Dr. Robert J. Graves
Robert W. Hughes	Robert M. Hughes, LL.D.
Joseph E. Johnston	Robert M. Hughes, Jr.
John B. Lightfoot	Mrs. Mary Minor Lightfoot
Mary Minor Lightfoot	Mrs. Mary Minor Lightfoot
William Arthur Maddox	Susie W. Maddox
Elisha Parmele	United Chapters of the Phi Beta Kappa Society
Joseph Prentis	Judge Robert R. Prentis
John Winston Price	Starling W. Childs
Soutter	James T. Soutter

GENERAL SCHOLARSHIPS

Award	*Donor or Source*
Alumni	Society of the Alumni
Thomas Ball Fund	Mrs. Alfred I. (Jessie Ball) duPont
Booth-Binns Fund	Arbella Booth Binns
Christopher Branch	Blythe Walker Branch
J. Bruce Bredin	J. Bruce Bredin
Belle S. Bryan	John Stewart Bryan
John Stewart Bryan Fund	Mrs. Lettie Pate Evans
Harry Lee Carter	Harry Lee Carter
John Clopton and John Bacon Clopton	Mrs. Maria Clopton Jackson
Betty Ruth Coddington Memorial	Alpha Chi Chapter of Gamma Phi Beta
Coggin	Mrs. and Mrs. William B. Coggin
Russell Mills Cox, Jr., War Memorial	Dr. Russell M. Cox and Harry Duffield Cox, '43

Award	*Donor or Source*
Cromwell	William N. Cromwell
Chancellor Darden Scholarship and Loan Fund	Mrs. Colgate W. Darden, Jr.
Delta Delta Delta	Alpha Mu Chapter of Delta Delta Delta
Early Virginia History Fellowship	Order of First Families of Virginia
Lettie Pate Evans	Lettie Pate Evans Foundation
Junius Blair Fishburn	Junius Blair Fishburn
Friends	Friends of the College of William and Mary
General Fund	Board of Visitors of the College of William and Mary
Anne Goff	Mrs. Anne B. Goff
Admiral Cary T. Grayson	Anonymous
Greene	Mr. and Mrs. William H. Greene
Hibbard Memorial	Captain and Mrs. R. C. Hibbard
Irvin Memorial	Miss Annie B. Irvin
Lambda Chi Alpha Memorial	Epsilon Alpha Zeta Chapter of Lambda Chi Alpha
Langhorn-Putney Memorial	Eugenie D. Turnage
Lawson Shelton	Cheadie Burch Lawson
Memorial Endowment Fund	J. Gordon Bohannan
Richard Lee Morton	Faculty, Students and Alumni
Thomas Ball Montague	Mary W. Montague
Pan-Hellenic	Pan-Hellenic Council of the College of William and Mary
Pi Kappa Alpha	Robert M. Hughes, LL.D.
Joseph Schoolfield Potts, Jr.	Mrs. Virginia N. Potts
Prentice-Hill Dramatic	Mrs. Anna Bell Koenig Nimmo
Second World War	Mrs. Anna Bell Koenig Nimmo
Bertel Richard Rasmussen War Memorial	Mr. and Mrs. Bertel Rasmussen
Mary Boyd Ryland	Archie Garnett Ryland

Award	*Donor or Source*
Martha Waller Saunders	Alice LaVillon Saunders
Oscar F. Smith Memorial	Oscar F. Smith
Rex Smith Journalism	Friends of Rex Smith
Society of the Cincinnati Fellowship in History	Society of the Cincinnati in Virginia
Teacher Training Scholarships	The General Assembly
Tyler-Chandler	Class of 1920
Unfunded	The General Assembly
United Daughters of the Confederacy	United Daughters of the Confederacy
Virginia Pilot Association	Virginia Pilot Association of Norfolk, Virginia
John Philip Wager	Board of Visitors of the College of William and Mary
Washington-Jefferson	Daughters of the Cincinnati
Alexander W. Weddell	Alexander W. Weddell
Virginia Weddell	Mrs. Virginia Weddell
William and Mary Educational Foundation	William and Mary Educational Foundation

SPECIAL SCHOLARSHIPS

Award	*Donor or Source*
Latin Tournament	College of William and Mary
Modern Language	College of William and Mary
Science Contest	College of William and Mary

GRADUATE, PROFESSIONAL AND CO-OPERATING SCHOOLS

Award	*Donor or Source*
College of William and Mary	Massachusetts Institute of Technology
Law and Taxation	J. D. Carneal, Jr.

Award	*Donor or Source*
Matthew Gault Emery Law	Theodore S. Cox
Kappa Delta Pi Education	Alpha Xi Chapter of Kappa Delta Pi
William A. R. Goodwin Memorial Fund	Mrs. Lettie Pate Evans
Exeter University	Exeter University and the College of William and Mary
Drapers' Company Exchange Scholarship	Drapers' Company and College of William and Mary
Phi Alpha Delta Law	George Wythe Chapter of Phi Alpha Delta

LOAN FUNDS AND SCHOLARSHIPS

Loan or Scholarship	*Donor or Source*
Philo Sherman Bennett Loan Fund	William Jennings Bryan
Hope-Maury Loan Scholarship	The Hope-Maury Chapter of the United Daughters of the Confederacy
Norfolk College Alumnae Association Loan Scholarship	Alumnae Association of Norfolk College
William Lawrence Saunders Student Aid Fund	William Lawrence Saunders
William K. and Jane Kurtz Smoot Fund	Fairfax County Chapter, Daughters of the American Revolution
State Students' Loan Fund	The General Assembly
National Defense Student Loan Program	United States Department of Health, Education and Welfare and The College of William and Mary

STUDENT EMPLOYMENT AND THE WORK-STUDY PLAN

In order to coordinate work and study the College has vested control of student employment in the Committee on Scholarships

and Student Employment. This supervision applies to positions on the campus as well as to jobs in the City of Williamsburg.

At the present time employment opportunities in the vicinity of the College of William and Mary are such that each student may be assured of a substantial work income. A student may expect to earn from one-fourth to three-fourths of his college expenses. Through the cooperation of Colonial Williamsburg and other business concerns, a plan synchronizing part-time employment with study has been developed.

In order to maintain a proper balance between hours of employment and academic loads, the College requires that all student employment on the campus or in the city be assigned by the Director of Student Aid. Students are cautioned not to undertake more outside work than their academic schedules will safely permit. The normal work load is fifteen hours per week, and no student may work more than twenty hours per week without permission from the Committee on Scholarships and Student Employment.

Student employment assignments are on a contractual basis. All students accepting employment are expected to meet the responsibilities of their respective jobs. Failure to do so will constitute adequate reason for the Committee to refuse further financial assistance.

The usual jobs available to students are those as waiters, clerks, salesmen, technical and manual workers, stenographers, typists, and student assistants at the College. Whenever possible, the Committee on Scholarships and Student Employment will secure for the student a job which is directly related to his intended future career or to his course of study. In every case, an effort is made to give the student a job in which he can display his interests, talents, and skills to the best advantage.

PRIZES

The Lord Botetourt Medal. An annual award to the graduating student who has attained greatest distinction in scholarship. The medal was established in 1772, and has been revived through the generosity of Mr. Norborne Berkeley.

James Frederick Carr Memorial Cup. A memorial to James Frederick Carr, a former student of the College, who lost his life

in the World War, March, 1919. The cup is the property of the College. The student winning the award has his name engraved on the cup. Awarded on the basis of character, scholarship, and leadership. Presented by Mrs. John B. Bentley.

Chi Omega Award. Twenty-five dollars awarded by the local chapter of the Chi Omega sorority to the student attaining the highest average in the Department of Government.

Delta Omicron Rotating Scholarship. The Delta Omicron International Music Fraternity annually awards a $100 Rotating Scholarship to a member of the fraternity.

The Educational Foundation Awards. These awards are made annually to the outstanding intramural athlete and to the outstanding intercollegiate athlete among the senior men. In making the awards consideration is given to character, leadership, scholarship and sportsmanship, as well as to athletic prowess. These awards are supported by the College of William and Mary Educational Foundation, Inc.

The Wayne F. Gibbs Award. A prize of $25 annually shall be awarded to the best student in accounting who shall have successfully completed (or is about to complete) his undergraduate work.

The Robert L. Greene Chemistry Scholarship. This award is made annually to a junior or a senior student who is concentrating in chemistry. It is valued at $300 for the session and is awarded upon the recommendation of the Department of Chemistry.

The William A. Hamilton Prize. A prize of $300 established in 1938 by Charles P. Sherman, D.C.L., LL.D., as a memorial to the late William A. Hamilton, D.C.L., formerly Professor of Jurisprudence and Dean of the School of Economics and Business Administration, awarded to the student graduating in Law who shall write and submit the best essay or thesis on a subject connected with Roman Law or with Comparative Roman and Modern Law, the subject to be assigned by the faculty of the Marshall-Wythe School of Law.

James Barron Hope Scholarship. Established in 1897 by Robert M. Hughes, LL.D., of Norfolk, Virginia. It is awarded for the best piece of creative writing published in the College magazine

and written by a student below senior rank. The scholarship exempts Virginia students from the payment of $75 in fees and non-Virginia student, from $100 in fees.

The L. Tucker Jones Memorial Prize. These prizes are awarded annually to the outstanding senior students in the men's and women's intramural programs. In making the awards consideration is given to qualities of leadership, high ideals, and scholastic standing. These prizes are supported by the L. Tucker Jones Memorial Fund.

The Tiberius Gracchus Jones Literary Prize. Established by Archer G. Jones as a memorial to his father, Tiberius Gracchus Jones, a member of the Class of 1844-45. The income from the gift of $1,000 supports a prize for the best English essay submitted by any undergraduate student. The word "essay" includes the poem, the short story, the play, the oration, and the literary essay.

Lawyer's Title Award. The Lawyer's Title Insurance Corporation of Richmond, Virginia, awards an annual prize of $100 together with an appropriate certificate to the senior or graduating student of law in the Marshall-Wythe School of Law found by the faculty of the Law School to be most proficient in the law of real estate.

The Seidman & Seidman Tax Award. The firm of certified public accountants of Seidman & Seidman makes an annual award of a gold key on which the seal of the College is engraved, to the student in the Marshall-Wythe School of Law who, at graduation, has achieved the highest average in his courses on taxation, provided that his program has included at least twelve semester hours in this field.

The Society of the Cincinnati in the State of Virginia Prizes. The Society offers each year a medal of bronze and a cash prize of $100 to a male student, majoring or minoring in history, who submits the best essay on a subject dealing with the constitutional history of the United States, or with Virginia Colonial history. The subject must be approved by the chairman of the history department. The essays must be submitted to him during the first week in May. They must be typewritten, with duplicate

copies, and signed with a pseudonym. The author's name together with his pseudonym should accompany each essay in a sealed envelope. No prize will be given if a paper of sufficient merit is not submitted.

Sullivan Awards. A medallion awarded by the Southern Society of New York in recognition of influence for good, taking into consideration such characteristics of heart, mind, and conduct as evince a spirit of love and helpfulness to other men and women. Awarded each year to a man and a woman from the student body and to a third person possessing the characteristics specified by the donors.

The Wall Street Journal Achievement Award. A suitably inscribed medal and a year's subscription to the *Wall Street Journal* awarded to the outstanding senior in the Investments course.

The Virginia Trust Will Awards. The Virginia Trust Company of Richmond makes awards of $50 to each of the two students in the Marshall-Wythe School of Law who submit the best wills. These students are also eligible for state-wide awards.

PRIZES AND HONOR AWARDS

PHI BETA KAPPA

INITIATES, ACADEMIC YEAR, 1963-1964

INITIATES-IN-COURSE

Class of 1964

Karen Jean Back	Arlington, Virginia
Joel Eugene Brook	Jackson Heights, New York
Kincey Green Burdett	Richmond, Virginia
Brenda Ellen Crabtree	East Riverdale, Maryland
Horace William Crater	Falls Church, Virginia
Shauneen Ann Cruise	Falls Church, Virginia
Wilbur Logan Davidson, Jr.	Arlington, Virginia
Fredrica L. Dudley	Princeton, New Jersey
Eleanor Margaret Gates	Williamsburg, Virginia
Russell Benjamin Gill	Petersburg, Virginia
Harold Anthony Gillies, Jr.	Nutley, New Jersey
Mary Elizabeth Green	Arlington, Virginia
Neota Silvers Hall	Arlington, Virginia
Ann Priscilla Hegeman	Lexington, Kentucky
Jennings Sharon Heywood	Gloucester, Virginia
John Cameron Hoppe	Petersburg, Virginia
Samuel Pettus Hoyle	Newport News, Virginia
David Carter Hunter	Salem, Ohio
William James Hutchinson	Norwich, Connecticut
Mary Anita Jones	Brooksville, Florida

Warren Paul Kujawa	Williamsburg, Virginia
Linda Kay Lawrence	Fort Monroe, Virginia
Charles William Lucas	Vienna, Virginia
Jeffrey E. Marshall	Westfield, New Jersey
Thompson J. McCullough	Glen Burnie, Maryland
Sharon Zerbe Morris	Nokesville, Virginia
Aubrey L. Morrison	Norfolk, Virginia
Robert Davidson Pavey	Dayton, Ohio
Joan Hampton Phillips (Mrs.)	Williamsburg, Virginia
John Christopher Pollard	Norwalk, Connecticut
Marian Eleanor Ruddel	Arlington, Virginia
Sheila Mate Sawyer	Plantsville, Connecticut
Anthony John Steinmeyer	Rolla, Missouri
Sandra Mae Tolbert	Arlington, Virginia
Charles Henry Traeger, III	Riegelsville, Pennsylvania
Helen Campbell Walker	Moorestown, New Jersey
Lynda Anne Walker	Mountain Lakes, New Jersey
Paul David Woodson, III	Alexandria, Virginia

AWARDS AND PRIZES, 1963-64

Algernon Sydney Sullivan Awards: William V. Cleveland, Jr., Arlington, Virginia; Susan Hall Roache, Scott Air Force Base, Illinois; William George Guy, Williamsburg, Virginia.

James Frederick Carr Memorial Cup: Anthony John Steinmeyer, Rolla, Missouri.

The Lord Botetourt Medal: Russell Benjamin Gill, Petersburg, Virginia.

The L. Tucker Jones Memorial Prize: Carol Anne Wylie, Waynesboro, Virginia; Robert Wilson Sizemore, Highland Springs, Virginia

Chi Omega Awards: SHEILA MAE SAWYER, Plantsville, Connecticut.

The Wayne F. Gibbs Award: ROBERT NORMAN LENT, River Edge, New Jersey.

The Tiberius Gracchus Jones Literary Prize: CHARLES WARWICK LAWVER, Cheverly, Maryland.

Lawyer's Title Award: SHEPARD WILLIAM MCKENNEY, Williamsburg, Virginia.

The Seidman & Seidman Tax Award: EMERIC FISCHER, Newport News, Virginia.

The Virginia Trust Will Awards: JAMES PAUL KENT, JR., Altavista, Virginia; JOSEPH CRAIG WOOL, JR., Virginia Beach, Virginia.

The William A. Hamilton Prize: RICHARD CROUCH, Arlington, Virginia.

Student's Medal of the American Institute of Chemists: GARY LEE WORKMAN, Richmond, Virginia.

Pi Delta Epsilon Medal of Merit Awards: KINCEY GREEN BURDETT, Richmond, Virginia; MILTON MONROE REIGELMAN, Washington, D.C.

MERIT SCHOLARSHIPS AWARDED, 1964-65

Chancellor: NELSON L. HOWER, III, Arlington, Virginia.

Elisha Parmele: PEGGY JO KORTY, Riverdale, Maryland.

Joseph Prentis: ROBERT TAGGART, III, Fairfax, Virginia.

George Blow: ANNE CLEATON BARDEN, Richmond, Virginia.

Joseph E. Johnston: RANDALL THERON BELL, New York, N. Y.

John Archer Coke: JAY LOUISE WELDON, W. Collingswood, New Jersey.

Robert W. Hughes: STEVEN KENT MARCY, Alexandria, Virginia.

Edward Coles: PAUL JEFFREY BERNSTEIN, Milford, Connecticut.

"King" Carter: FRANK M. TURNER, Wilmington, Ohio

Corcoran: Timothy Jackson Sullivan, Ravenna, Ohio.

Soutter: Robert Dandridge Cooter, McLean, Virginia.

Graves: Carol Eileen Jones, Richmond, Virginia

John D. Lightfoot: Bernard Joel Rudman, Richmond, Virginia.

Mary Minor Lightfoot: Frances Anne Zwenig, Arlington, Virginia.

John Winston Price: James Michael Barkas, Port Jefferson Sta., N. Y.

William Arthur Maddox: Sharon Anne Spooner, McLean, Virginia.

Henry Eastman Bennett: Jill McCroskey, Knoxville, Tennessee.

President Bryan: James Bruce Davis, Vienna, Virginia.

Jackson W. Davis: Larry Benton Qualls, Plant City, Florida.

DEGREES CONFERRED

Regular Session 1963-1964

BACHELORS OF SCIENCE

Madeline Toby Simon Abramson	Maplewood, N. J.
Karen Jean Back	Arlington
Thomas Amos Barber	Accomac
David Allen Barley	St. Mary's, W. Va.
*Louis Robert Bartek, Jr.	Hampton
Nancy Mae Baumgardner	Winchester
John Earl Benson	Sandston
Gary Francis Blessington	North Springfield
Frederick Winborne Bowen, Jr.	Newport News
Joel Eugene Brook	Jackson Heights, N. Y.
Denise Brooks	Falls Church
Frank Johnson Brown, III	Newport News
Ronald O. Bryant	Williamsburg
Robert Alan Buckley	Havertown, Pa.
Nelson David Burkholder, Jr.	Newport News
Walter Edward Carlton, Jr.	Manassas
Karen Caufield	Roselle Park, N. J.
*Buddy Reaford Childress	Newport News
Horace William Crater	Falls Church
High Honors in Physics	
Daniel Caleb Denby	Scottsville
Suzanne Martinez Duval	Washington, D. C.
Thomas Barrett Elliott	Arlington
Gretchen Ernst	Sharon, Pa.
Donald Strayer Findley	Hampton
Margaret Katherine Fisher	Winchester
Wileina Sue Fisher	Callaway
William H. Fleming, IV	Falls Church
Richard Allen Gardner	Chicopee, Mass.
Mary Elizabeth Green	Arlington
James Franklin Grim	Arlington
Gay Ollen House Grossmann	Newport News

*Degree Requirements Completed January 31, 1964.

Charline Lucille Gurley	Arlington
Horace Edward Harrell	Suffolk
Stephen Patrick Hayes, III	Centerville, Mass.
Jennings Sharon Heywood	Severn
James Grigsby Holdren, Jr.	Richmond
Howard Alfred Hopkins	Pittsburgh, Pa.
John Cameron Hoppe	Petersburg
Samuel Pettus Hoyle, Jr.	Newport News
Jean Gail Jalufka	Williamsburg
Susan Lynne Johns	Annandale
Edward Joseph Kinsinger	Williamsburg
Charles H. Kresch	Bayonne, N. J.
Warren Paul Kujawa	Williamsburg
John Robert Kunkle	Boyertown, Pa.
Keith Theodore Larson	Manchester, N. H.
Peter Charles Latkin	Brooklyn, N. Y.
Peter John Lima	Clifton, N. J.
William Aleck Loker, Jr.	Leonardtown, Md.
Charles W. Lucas, Jr.	Vienna

Honors in Physics

Wallace H. Lynn, Jr.	Manassas
Robert Lee Malarkey	Pittsburg, Pa.
Paul Travis Mattox	Martinsville
James Lloyd Meek	Fort Myers, Fla.
David Lathan Mims, Jr.	Harrisonburg
Mary Elizabeth Moore	Fredericksburg
Stephen Russell Mosier	Woodbridge
Anne Florence O'Hare	Plainfield, N. J.
Kenneth Olshansky	Newport News
Leland Austin Orr	Hanover, Pa.
Betty Dandridge Orrick	Oak Ridge, Tenn.
Judith Ray Parker	Arlington
Robert Davidson Pavey	Dayton, Ohio
Cynthia R. Peery	Rockville, Md.
*Stanley A. J. Penkunas	Saint Clair, Pa.
Joan Gray Hampton Phillips	Williamsburg
Anne Sater Piddington	New York, N. Y.
David Martin Pond	Vienna

*Degree Requirements Completed January 31, 1964.

Wayne Roger Price	Baldwin, N. Y.
Karen Joyce Rackley	Williamsburg
David George Ricker	Baltimore, Md.
Albert Hill Risner, Jr.	Fredericksburg
Donald Ray Robertson	Charlottesville
Marian Eleanor Ruddel	Arlington
William Young Saunders	Newport News
*Jon Keith Shidler	Gloucester Point
John Mayer Simon	Williamsburg
*Larry Wayne Simpson	Chesapeake
Cassius Miller Stanley, III	Danville
George Bruce Taggart	Havertown, Pa.
Sandra Mae Tolbert	Arlington
Darrell H. Totman	Oakton
James H. Tudor, III	Williamsburg
Margaret J. Underwood	Stuart
Juliana Webb Watkins	Emporia
*Edmond Clair Watters	Natrona Heights, Pa.
Richard T. Wilfong	Dayton
Beverly Van Oot Williams	Danville
Doris Nadine Williams	Arlington
Paul David Woodson, III	Alexandria
Gary Lee Workman	Richmond

BACHELORS OF ARTS

Ethelyn Rose Abbott	Arlington
Bonnie Dace Agner	Arlington
Thomas Walter Alley	Wytheville
Louis Iverson Almand	Arlington
*Roger Lee Amole, Jr.	Roanoke
Helen Elaine Amoroso	Williamsburg
Jimmye Dell Lubin Angell	Williamsburg
Bert Leon Anker	Newport News
Jeanene Iris Anker	Newport News
Daniel Alan Armour	Virginia Beach
Joanne Elizabeth Arnett	Birmingham, Ala.
Robert Townsend Artman	Suffolk

*Degree Requirements Completed January 31, 1964.

Walter Cary Ayers	Stuart
James Erskine Bagg, Jr.	Natchez, Miss.
Honors in English	
William Barringer Baker	Scarsdale, N. Y.
Alfred Keeney Baldwin	Silver Spring, Md.
Marcia Ann Ballard	Arlington
H. Randolph Barbee, Jr.	Williamsburg
Joseph Brooks Barnes, Jr.	Hampton
George Pennock Bassett, III	Williamsburg
Polly Sue Bean	Orange
Lloyd G. Becker, Jr.	Oceanside, L. I., N. Y.
*Robert Volney BeCraft	Wytheville
James Robert Bennett	Mount Joy, Pa.
Joel Irwin Berman	Paterson, N. J.
Douglas Crawford Berryman	Novelty, Ohio
Claire Ruth Bethel	Richmond
*Sharon Ann Bieler	Roanoke
James Carter Bjorkholm, Jr.	Richmond
William Priestley Black	Wilmington, Del.
Keith Edward Blackburn	Gate City
Mary Elizabeth Blackwell	Richmond
Gail Rollin Blake	Alexandria
Karen Martha Blake	Hampton
David George Blood	Linwood, N. J.
JoAnne Bode	Pittsburgh, Pa.
Katherine-Marie Bonner	McLean
Martha Thomas Bradley	Williamsburg
Pamela Bradley	Abingdon
*Peter Fanch Bradley	Ossining, N. Y.
Anne Cecilia Bragassa	Lynchburg
Walter Royce Braman	Dalton, Mass.
George Walter Bressler	Memphis, Tenn.
Barbara Ellen Bridges	Richmond
Elizabeth Denton Brooks	Richmond
Kelsey Edwin Brown	Damascus
Judith Francis Bryan	Fairfax
William G. Burch, III	Alexandria
Kincey Green Burdett	Richmond

*Degree Requirements Completed January 31, 1964.

Mary E. Butler	Alexandria
Mary Ellen Campbell	Highland Springs
James Richard Carling	Florham Park, N. J.
*Catherine Helene Carr	Falls Church
Robert F. Casey	Yonkers, N. Y.

Honors in Government

Arthur Bond Cecil, III	Easton, Md.
Pauline Goddard Cherry	Charlottesville
Cecil Marcia Childress	Highland Springs
Elizabeth Ellene Chiles	Falls Church
George Angelo Christie	Norfolk
Judith Clark	Cherry Hill, N. J.
Nathaniel B. Clarke	McLean
William V. Cleveland, Jr.	Arlington
Michelene O. Cloney	Clifton
Elizabeth Ann Coffman	Salem
Ross Louis Connealy	Falls Church
Linda Rogers Conway	Hampton
Sandra Lee Coppage	Williamsburg
William E. Corley	Pittsburgh, Pa.
Marsha A. Cornick	Yorktown
*Philip D. Cox	Evansville, Ind.
Estella Rebecca Coyner	Waynesboro
Brenda Ellen Crabtree	Glen Burnie, Md.

Honors in English

Jacqueline Walford Crebbs	Gordonsville
Peter Michael Crow	Webster Groves, Mo.
Shauneen Ann Cruise	Falls Church
Marilyn Ann Cummings	Woodbridge
David Etheridge Curling	South Norfolk
Sandra Elizabeth Dail	Arlington
John W. Daly	Denbigh
Doriss McAdam Dameron	Richmond
Eleanor Jane Daugherty	Rochester, Minn.
Wilbur Logan Davidson, Jr.	Arlington
Judith Marie Davis	Arlington
Stewart Pettet Davis	McLean

*Degree Requirements Completed January 31, 1964.

Edwin Kenneth Day	Philadelphia, Pa.
Alfred Warren De Quoy	McLean

Honors in History

*Pamela Carter Derrickson	Norfolk
Leslie Beth Diamant	Newport News
Ellen Reid Dickens	Williamsburg
Daniel Crawford Dickerson	Winchester, Ky.
*William Robert Dixon	Williamsburg
Sharon Morris Doeppe	Nokesville
Winfield Marshall Doeppe	Newport News
Thomas Domino	Williamsburg
Joyce Anne Dooley	Roanoke
Sharon Cook Dooley	Staunton
Jerome Castle Duggan	Kansas City, Mo.
Michael Jordan Dunaway	Seaford, Del.
Marcia Eaton	Winchester, Mass.

Honors in Sociology and Anthropology

Charlotte Claybrook Edmonds	Kilmarnock
Margaret Frances Edwards	Richmond
Thomas Henry Edwards	Surry
Sharon Kay Eggen	Norfolk
Dorothy Ann Eggleston	Newport News
Charlotte Baldwin Elder	Hopewell
Robert Oscar Elder	Arlington
Bonnie Engel	Blacksburg
Parker Thomas English	Portsmouth
Jane Elizabeth Eschmeyer	Arlington
*Michael Graydon Essman	Williamsburg
V. Alfred Etheridge, Jr.	Virginia Beach
Carol Elizabeth Evans	Jacksonville, Fla.
Michele Ahern Eye	Williamsburg
M. Keven Farley	Princeton, N. J.
Janet Kay Faulstich	Washington, D. C.
Thomas Dorsey Ficklin, IV	Aberdeen, Md.
Donn Fileti	West Orange, N. J.
*Carter Braxton Finn	Los Angeles, Calif.
Michael Vincent Flattery	Arlington

*Degree Requirements Completed January 31, 1964.

Janet R. Fohs	Springfield, Pa.
Suzanne Louise Foley	Norfolk
Carol Ann Forsythe	Arlington
Jonathan Edwards Fox	Clinton, N. Y.
William S. Francis, Jr.	Hampton
Richard James Franklin	Arlington
E. Laidler Freeman	Charleston, S. C.
Barry Lee Fretz	Boyertown, Pa.
Joseph Thomas Gatti	Laurelton, L. I., N. Y.
Janice Elizabeth Gerry	Petersburg
David A. Gibson	Manchester, Conn.
Russell Benjamin Gill, Jr.	Petersburg

High Honors in English

Harold Anthony Gillies, Jr.	Nutley, N. J.
Gerald K. Gimmel	Chevy Chase, Md.
*Catherine Elizabeth Goin	Warrenton
Richard Cyrus Goodwin	Annapolis, Md.
Stephan Haward Gordon	Norfolk
Francis Whitton Govern, Jr.	Falls Church
James P. L. Grandy	Glassmanor, Md.
William Roger Grant	Milton, Mass.
*John Evelyn Gravely	College Park, Md.
*Dolores Heath Gray	Williamsburg
Michael H. Griffin	Richmond
Charles Brock Griffith	River Edge, N. J.
David John Guenther	Summit, N. J.
Nancy Alice Hahn	Vienna
Christopher Shepard Hale	Hillsdale, Mich.
*Alice Katherine Hall	Tallahassee, Fla.
Judith Irving Hall	Easton, Pa.
Linda Jones Hall	Nashville, Tenn.
Melissa Lee Hall	Arlington
Neota Silvers Hall	Arlington

High Honors in Government

Sharon Esther Hall	Springfield
Howard Rogers Hardy	Reading, Mass.
William D. Harrell, Jr.	South Norfolk

*Degree Requirements Completed January 31, 1964.

André C. D. Harries	London, England
Franklin Edward Harris	Newport News
Michaelle Ann Hatcher	Goochland
Herbert Winfield Hausmann, Jr.	Yardley, Pa.
Sandra Anne Heagy	Chambersburg, Pa.

Honors in English

Sharon Anne Heffington	Newport News
Ann Priscilla Hegeman	Lexington, Ky.
Ralph Phillip Heisner, Jr.	Prospect Park, Pa.
Mary Robinette Henderson	Keswick
Daniel Ernest Henning	Williamsburg
Daniel W. Hickman	Parksley
Edwin Valentine Hill, Jr.	Medfield, Mass.
Julia Walton Hodges	Gordonsville
Margaret Ann Holland	Arlington
L. Elaine Hoover	Danville
Edward A. Horton, III	Westfield, N. J.
Joyce Lee House	Newport News
*John Taylor Howell	Beaumont, Texas
Patricia Anne Hudson	Lynchburg
Leon Floyd Hughes	Norge
Lucy Alice Hummer	Arlington
David Carter Hunter	Salem, Ohio
William James Hutchinson	Norwich, Conn.
Thomas Allen Insley, Jr.	Newport News
Sara Joanna Jeffries	Raleigh, N. C.
Lynn Katherine Jensen	Summit, N. J.
Frances Ann Jett	Silver Spring, Md.
Edward Q. Johnson, Jr.	Ferguson, Mo.
Julie Page Johnstone	Falls Church
Carol Lucile Jones	West Point
Kathleen Carolyn Jones	Berryville
Mary-Anita Jones	Brooksville, Fla.

High Honors in Ancient Languages

Ronald Douglas Jones	Williamsburg
Vivian Elizabeth Jones	Richmond

*Degree Requirements Completed January 31, 1964.

Wesley Derr Jones	Hampton
Susan Jane Judkins	Blacksburg
*Martin Joel Kaufman	Croton-on-Hudson, N. Y.
Lucinda Wharton Kellam	Belle Haven
Gordon Martin Kent	Altavista
Richard R. Kern	Warminster, Pa.
Terry D. Kester	Ferguson, Mo.
Michael Perrin Kirby	McLean
Margaret Ruth Pederson Kirk	Williamsburg
*James Temple Knotts, III	Williamsburg
Marylyn Joanne Krider	Canton, Ohio
William Augustine Lambert	Hampton
Roberta Jeanne Landes	Alexandria
Mary Louise Largen	Hillsville
Michael J. Lashley	Williamsburg
William Merle Laughlin, Jr.	Washington, Pa.
Linda Kay Lawrence	Arlington
John Way Lee	Ocean City, N. J.
Patricia Lucy Lee	Decatur, Ga.
Donald Edward Lefelar	Clifton, N. J.
John Raoul leMat	Falls Church
Robert Norman Lent	River Edge, N. J.
Michael Paul Lesniak	Brooklyn, N. Y.
Linda Jean Livesay	Alexandria
Mary Grafton London	King William
George Edward Lott, Jr.	Grosse Pointe, Mich.
Louise Ann Lyon	Virginia Beach
*Thomas R. Lytle	Alexandria
Douglas Malcolm MacDonald	Butler, Pa.
Robert Andrew MacIntosh	Arlington
*Floyd Francis MacKenzie	Houston, Texas
Dennis Arnold Maddrey	Branchville
Helen Constantine Mageras	Williamsburg
Nancy Jo Mahoney	Darien, Conn.
High Honors in Psychology	
Stephen Scott Mansfield	Rockford, Ill.
Honors in History	

*Degree Requirements Completed January 31, 1964.

Robert Lundy Manuel	Atherton, Calif.
Libero Marinelli, Jr.	Trenton, N. J.
Jeffrey Ehlers Marshall	Westfield, N. J.

High Honors in English

Robert Clarke Martin	Williamsburg
Kathleen A. Mathie	Sandusky, Ohio
Thompson Joseph McCullough	Glen Burnie, Md.
Brian Anthony McDonald	Hazelton, Pa.
Kelley David McDonald	Williamsburg
deSaussure McFadden	Cades, S. C.

Honors in History

Patricia Lee McHenry	Shenandoah
Michael Raysor McKann	Franklin
Reginald W. McLemore, Jr.	Richmond

High Honors in Sociology and Anthropology

Peter H. McPhee	Wilmette, Ill.
Jesse Thomas Meadows, Jr.	Roanoke
Richard N. Meisinger	Williamsburg
*Clifford Fred Meyer, II	Williamsburg
Hugh Miller, III	Arlington
Roger LeRoy Miller	York, Pa.
Shirley Loraine Minnick	Mount Jackson
Joan Walker Mitchell	Arlington
Mary Jane Mitchell	Vero Beach, Fla.
John Edgar Molnar	Farmville

High Honors in History

Judith Christina Moore	Lexington, Mass.
Mary Constance Moore	Newport News
William H. Morley, Jr.	White Plains, N. Y.
Aubrey Linwood Morrison, Jr.	Virginia Beach
William C. Morrison, Jr.	South Norfolk
Carolyn Elizabeth Muddiman	Roanoke
Barbara Anne Mulcahey	Westwood, N. J.
John Bingham Munroe	Williamsburg, Mass.
William Roberts Munroe	Williamsburg, Mass.

*Degree Requirements Completed January 31, 1964.

Melissa Louise Myers	Farmville
Harriet Nachman	Newport News
Blake Tyler Newton, III	Greenwich, Conn.
*Lorraine Jansen Nicholson	Newport News
Janet Louise Norment	Arlington
Kathleen Marie O'Connor	Falls Church
Raymond Francis Old	Williamsburg
*Frances Ann Oliver	Newport News
*Diane Celeste Christian Owen	Williamsburg
Gloria Wright Panton	Newport News
George Glimis Pappas	Union City, N. J.
Patricia Mary Parker	Meridian, Miss.
*Stephen Dwight Parker, Jr.	Longmeadow, Mass.
Catherine Louise Parsons	Alexandria
Edward Pascavage, Jr.	Temple, Pa.
Elizabeth Winn Paschall	Williamsburg
Karen Dorsey Patrick	Virginia Beach
Currell Lee Pattie	Alexandria

Honors in Psychology

Gordon Oscar Pehrson, Jr.	Glenview, Ill.
Ginnie Lynn Peirce	Alexandria
Robert John Pensec	Roanoke
John William Phillips	Cleveland Heights, Ohio
William Randolph Pippin	Scottsville
Paul A. Pollard, Jr.	Lynchburg
Bruce Potter	East Aurora, N. Y.
Gregory Anson Presnell	St. Petersburg, Fla.
*Terry May Price	Norfolk
Florence Fay Pritchard	Newport News
James Bryan Pritchard	Pittsburgh, Pa.
Lucy Ann Quaintance	Cranford, N. J.
Peter Max Raihofer	Valley Cottage, N. Y.
John Harvard Randolph	Arlington
Nancy Jane Ratz	Jefferson City, Mo.
*Harry Coleman Redd, III	Alexandria
William Hancock Redd	Arlington
Milton Monroe Reigelman	Washington, D. C.
Beverly Jean Ritchel	Arlington

*Degree Requirements Completed January 31, 1964.

Susan Hall Roache	Scott Air Force Base, Ill.
Jacquelyn Roberts	Williamsburg
*Marynell Roberts	Roanoke
Daniel Reinhardt Root	Crown Point, Ind.
Valda Fay Rosado	Arlington
Charles Preston Rose, Jr.	Brecksville, Ohio
*Lynn Kirk Rose	Smithfield
Fredna Orlena Ross	Fort Lee
James Arthur Roy	Bethel Park, Pa.
John A. Roy	Campbell, N. Y.
Robert M. Roylance	Arlington
Diane Beuchert Ruth	Williamsburg
Franklin Archie Ruth	Williamsburg
Judith Audrey Sadler	Annandale
William Samuel Sadler	Hampton
John Theodore Saile	Gates Mills, Ohio
Katherine Flippo Saunders	Williamsburg
John Edward Sapinsky	McKees Rocks, Pa.
Jerry Wayne Saunders	Hampton
William Richard Savage, III	Suffolk
Sheila Mae Sawyer	Plantsville, Conn.
Gretchen Elizabeth Scherer	Washington
Cort Burk Schlichting, Jr.	Wayne, N. J.
John Albert Schuler	Wyomissing, Pa.
Joseph Edwin Shapiro	Newport News
Edward Peter Shattuck	Springfield, Vt.
Linda Mae Shepherd	Lorton
Tobey Mark Sindt	Naperville, Ill.
Robert Wilson Sizemore	Highland Springs
Glen O. Skaggs, Jr.	Miami, Florida
F. Patrick Slattery	Alexandria
John Slifka, III	Bethlehem, Pa.
*Barbara Drucker Smith	Newport News
Betty Linn Smith	Glen Ellyn, Ill.
Martha Ann Smith	Bedford
Francine Elaine Snider	Petersburg
Robert Heyde Soleau	Pittsburgh, Pa.
Herbert Randolph Spencer, Jr.	Newport News

*Degree Requirements Completed January 31, 1964.

Lloyd Walter Stableford	River Edge, N. J.
Jeffrey Norris Stafford	Reed City, Mich.
Maxine Leigh Steinbach	Franklin
Anthony John Steinmeyer	Rolla, Mo.
John Decateur Stewart, II	Alexandria
William J. Stewart, Jr.	Mountain Lakes, N. J.
Susan Margaret Stitt	Eastville
Patricia Gordon Storey	Hopewell
Walter W. Stout, III	Cranford, N. J.
Lindsey L. Stringfellow	Cape Charles
*Dennis Robert Sullivan	Palisade, N. J.
Carleen Chilton Sundin	Hampton
George Robert Sutherland, Jr.	Norfolk
Roger Milton Swagler	Kent, Ohio
Carolyn Elise Tetsloff	Orange, Conn.
Charles Barton Thomas	Arlington
Roger Paul Thomasch	Philadelphia, Pa.
Richard Eugene Thomasson	Southern Pines, N. C.
Joan Eleanor Thompson	Alexandria
Mishelle Annette Thompson	Williamsburg
Ceane Tierney	Arlington
Wendell Barry Tinsley	Roanoke
Thelma Alois Tinsman	Bluemont
Thomas Joseph Todd	Washington, D. C.
John Kumler Toedtman	Kettering, Ohio

Honors in History

Ann Eaton Tomlinson	Arlington
*Everett George Topham	Newport News
Charles Henry Traeger, III	Riegelsville, Pa.

Honors in Government

Susan Anita Trice	Charlottesville
Charlene Bennett Tudor	Arlington
John Harvey Tugman	Arlington
Louise Fitzpatrick Turner	Williamsburg
*Carl Philip Tutschek	Short Hills, N. J.
Philip Neal VanKirk	Wheeling, W. Va.
Jonathan James van Vorst	New Lebanon, N. Y.

*Degree Requirements Completed January 31, 1964.

Patricia J. Vaught	Roanoke
Emily Hamilton Vawter	Alexandria
Mary Ann Venner	Virginia Beach
Hermon Douglas Vess	Hampton
Walter Darnall Vinyard, Jr.	Vinton
Honors in English	
James Lloyd Vitol	Bethesda, Md.
Helen Campbell Walker	Moorestown, N. J.
Highest Honors in History	
Joy Gordon Walker	Arlington
Lynda Anne Walker	Mountain Lakes, N. J.
Barbara Louise Wallace	Pittsburgh, Pa.
Thomas Gregory Ward	Ontario
Betty Carol Watts	Richmond
William Paul Weathersbee	Williamsburg
Charles Henry Weaver	Easton, Pa.
Richard Edwin Wegner	Arlington
Hugh John Weidinger, III	Great Neck, N. Y.
Diana Elisabeth Weisbrod	Alexandria
Evamon Fernley Wells	Richmond
Bruce Allen Wertheimer	Marion, Ohio
Calvin Terrell West	Natural Bridge
Robert Orrin White	Randolph, Mass.
Carol Louise Wieland	Louisville, Ky.
Rosemary Dean Wilbur	Fairfax
Herbert Albin Wilfret	Pompton Plains, N. J.
Dianne Gail Wilkins	Virginia Beach
Janet Hope Willer	Elgin, Ill.
Thomas D. Willett	Richmond
High Honors in Economics	
*Adriel Katharine Williams	Annandale
Anne Maynard Williams	Pembroke
*Ronald Smith Williams	Bassett
Victoria Anne Williams	Mannheim, Germany
Henry Wolf	Decatur, Texas
Robert Paul Wolf	Decatur, Texas

*Degree Requirements Completed January 31, 1964.

G. Ashley Woolridge	Clearfield, Pa.
Melinda Norris Worley	Blacksburg
*Charles E. Wright	Roanoke
Lois E. Wright	Hampton
Carol Anne Wylie	Waynesboro
*Despina Katherine Yeapanis	Newport News
*Gary Lunt Young	Alexandria

BACHELORS OF CIVIL LAW

John Kay Bancroft — Cohasset, Mass.
A.B., University of Vermont, 1961

Allan Charles Brownfeld — New York, N. Y.
A.B., College of William and Mary, 1961

Richard Crouch — Arlington County
A.B., College of William and Mary, 1962

Reginald Benjamin Frazier — Newport News
A.B., College of William and Mary, 1962

Philip Jay Hendel — Brookline, Mass.
A.B., College of William and Mary, 1962

Hugh Scott Hester — Reidsville, N. C.
A.B., University of North Carolina, 1956

*James Paul Kent, Jr. — Altavista
A.B., College of William and Mary, 1961

James Woodrow McGlothlin — Oakwood
A.B., College of William and Mary, 1962

*Shepard William McKenney — Norfolk
A.B., College of William and Mary, 1962

*Richard W. Neve — Mauston, Wis.
B.B.A., University of Wisconsin, 1959

Joseph Forrest Phillips, Jr. — Williamsburg
A.B., College of William and Mary, 1961

*Donald Jack Porter — Williamsburg
B.S., United States Naval Academy, 1953

Norton Woodrow Pusey — Norfolk
A.B., Norfolk College of William and Mary, 1961

Thomas A. Shiels — Williamsburg
A.B., The Pennsylvania State University, 1958

*Degree Requirements Completed January 31, 1964.

*David L. Short — Newport News
B.B.A., Norfolk College of William and Mary, 1962

*Norvell Prentis Smiley, Jr. — Yorktown
A.B., Lynchburg College, 1960

Wallace B. Smith — Williamsburg
A.B., The University of the South, 1957

Constantine A. Spanoulis — Norfolk
A.B., Norfolk College of William and Mary, 1961

Edward Kendall Stock — Williamsburg
A.B., The American University, 1961

*Haral Lee Stuart — Bricktown, N. J.
A.B., University of Alabama, 1962

Harold Olai Telstad — Newport News
A.B., College of William and Mary, 1958

Joseph Craig Wool, Jr. — Virginia Beach
A.B., College of William and Mary, 1962

MASTERS OF EDUCATION

*Vaughn Guillaudeu Adams — Norfolk
A.B., Randolph-Macon Woman's College, 1933

*Shirley DeFries Aiken — Portsmouth
A.B., Tennessee Temple College, 1957

Gerald Benton Anderson — Portsmouth
A.B., DePauw University, 1948

Thomas C. Barrett — Goldsboro, N. C.
A.B., East Carolina College, 1962

Edith Russell Bowen — Norfolk
B.S., in Social Science, Richmond Professional Institute, 1953

Arthur Loyola Burke — New York, N. Y.
B.S., University of Maryland, 1955

Duane Massey Carlton — Saluda
A.B., Mary Washington College, 1959

Eloise Jones Cowand — Norfolk
A.B., Elon College, 1937

*Joseph B. Dent, Jr. — Virginia Beach
B.S., in Distribution, Richmond Professional Institute, 1957

*Degree Requirements Completed January 31, 1964.

HENRY GRAYDON DRUDGE — Newport News
A.B., Richmond College, University of Richmond, 1955

DONALD HOWARD ENGELKEN — Williamsburg
B.S., College of William and Mary, 1959

*JANET GRAY FINNEGAN — Virginia Beach
B.S., in Elementary Education, Norfolk Division of the College of William and Mary, 1958

ARTHUR KING FISHER — Parksley
A.B., College of William and Mary, 1957

ALEXANDER MCDONALD FLEET — Richmond
B.S., in Social Science, Richmond Professional Institute, 1956

WILLIAM DUNN GILLIAM — Virginia Beach
A.B., Guilford College, 1958

*JOAN R. HALL — Portsmouth
B.S. in Secretarial Administration, The Woman's College of the University of North Carolina at Greensboro, 1955

*ELEANOR THOMAS HAMILTON — Newport News
B.S., in Business Administration, Virginia Polytechnic Institute, 1946

CHARLOTTE MATHEWS HOPEWELL — Portsmouth
B.S., Elementary Education, Norfolk Division of the College of William and Mary, 1960

PHILIP GERALD INSCOE — Portsmouth
B.S., Wake Forest College, 1948

JAMES E. KARO — Bear River City, Utah
B.S., Utah State University, 1958

BARBARA HART KEARNS — Norfolk
A.B., Guilford College, 1956

*JOHN HOWARD KEPCHAR — Norfolk
A.B., Catawba College, 1949
M.A., Duke University, 1954

JOHN WILLIAM LEDWITCH, JR. — Newport News
A.B., Belmont Abbey College, 1960

BERNICE BRADSHAW LOVITT — Virginia Beach
A.B., Randolph-Macon Woman's College, 1931

RUTH SWAIN MASTERS — Hampton
B.S., in Nursing, University of Virginia, 1961

*Degree Requirements Completed January 31, 1964.

Jeane Cartwright McCrory — Norfolk
B.S., in Secondary Education — Business Education, The Norfolk College of William and Mary, 1961

Judith Bolles Morrell — Newport News
A.B., University of Connecticut, 1961

Evelyn Smith Oglesby — Chesapeake
B.S. in Elementary Education, Norfolk Division of the College of William and Mary, 1958

Edna Garrett Parson — Portsmouth
A.B., Norfolk Division of The College of William and Mary, 1960

James W. Payne — Virginia Beach
B.S., Secondary Education — Social Studies, The Norfolk College of William and Mary, 1962

Patricia B. Perry — Chesapeake
B.S., in Education, Radford College, 1959

Mattie E. Pinkham — Virginia Beach
B.S., in Elementary Education, Norfolk College of William and Mary, 1961

*Johnnie E. Rich — Chesapeake
B.S., East Carolina College, 1952

Thelma Griffin Sanders — Chesapeake
B.S., in Elementary Education, The Norfolk College of William and Mary, 1962

Charles Mahlon Saunders, Jr. — Franklin
A.B., Randolph-Macon College, 1950

*Richard Lewis Saunders — Smithfield
A.B., Randolph-Macon College, 1951

Vyzelle Denson See — Portsmouth
B.S. in Elementary Education, The Norfolk College of William and Mary, 1961

Henry Graham Selby — Norfolk
B.S., Virginia Polytechnic Institute, 1950

Elizabeth Page Smith — Tabb
B.S., in Education, Madison College, 1955

Kathryn Raffensperger Thomas — Newport News
A.B., Shepherd State Teachers College, 1945

*Degree Requirements Completed January 31, 1964.

NANCY GAY VAUGHAN — Williamsburg
B.S., College of William and Mary, 1961

DONALD JAY VINY — Norfolk
A.B., Dartmouth College, 1958

HOYLE NICHOLS WAITMAN — Richmond
A.B., Randolph-Macon College, 1955

MARGARET JACKSON WILLIAMS WALKER — Chesapeake
B.S. in Elementary Education, Norfolk Division of The College of William and Mary, 1960

MARIAN KISER WALSH — Newport News
A.B., Catawba College, 1960

GLADYS M. WILSON — Portsmouth
B.S. in Health Education, East Stroudsburg State College, 1943

CHARLES ROBERT WOOLLUM — Alexandria
A.B., College of William and Mary, 1962

MASTERS OF ARTS

ROBERT CHARLES BLANCHARD — Cheverly, Md.
B.S., University of Scranton, 1959
(Physics)

DOUGLAS WAYNE BLEVINS — Cranes Nest
A.B., College of William and Mary, 1963
(Taxation)

JAMES MCCLURE BRADFORD, JR. — Hampton
B.S., (Mechanical Engineering), The Clemson Agricultural College, 1959
(Physics)

ROBERT MARSDEN CHAPMAN — Newport News
B.S., College of William and Mary, 1962
(Mathematics)

RICHARD LOCKWOOD CHERRY — Williamsburg
B.S., Psychology, The Norfolk College of William and Mary, 1961
(Psychology)

Robert Jackson Hursey, Jr. Williamsburg
B.S., in Mathematics, The University of North Carolina (Chapel Hill), 1962
(Mathematics)

Dale William Leonard Owego, N. Y.
A.B., College University, 1962
(Psychology)

John Charles McCain Fort Worth, Texas
A.B., Texas Christian University, 1962
(Marine Science)

Michael Patrick McCormick Canonsburg, Pa.
A.B., Washington and Jefferson College, 1962
(Physics)

Sandra Lang McNair Ashtabula, Ohio
A.B., College of William and Mary, 1962
(History)

Donald Ikerd McRee Hampton
B.S., Davidson College, 1957
(Physics)

Leonard Theodore Melfi, Jr. Williamsburg
B.S., in E.E., The Citadel, 1955
(Physics)

Robert Joseph Miller Hannibal, Missouri
A.B., William Jewell College, 1961
(Biological Oceanography)

Richard Heath Parker Williamsburg
B.S., Virginia Military Institute, 1961
(Nuclear Physics)

Glenda Pevey Rhyne Brookhaven, Miss.
A.B., Mississippi State College for Women, 1957
(English Literature)

Paul Frederick Rule Chesapeake
A.B. in Journalism, University of North Carolina, 1959
(Education)

William Beeuwkes Shuler Berkeley, Calif.
B.S., College of William and Mary, 1962
(Physics)

James Clarence Smith, Jr. — Hampton
B.S., Davidson College, 1961
(Mathematics)

**Richard Byron Stone — Virginia Beach
A.B., Virginia Military Institute, 1961
(Marine Science)

Robert Paul Sutton — Williamsburg
A.B., Juniata College, 1962
(History)

John Wesley Vogel — Mathews County
B.S., College of William and Mary, 1958
(Biological Oceanography)

MASTERS OF LAW AND TAXATION

Emeric Fischer — Newport News
B.S. in Business Administration, University of South Carolina, 1952
B.C.L., College of William and Mary, 1963

Owen Alan Knopping — Norfolk
A.B., College of William and Mary, 1961
B.C.L., College of William and Mary, 1963

DOCTOR OF LAW

Lloyd U. Noland, Jr. — Newport News
A.B., Dartmouth College, 1935

DOCTOR OF LAW AND TAXATION

Otto Lowe — Cape Charles
A.B., College of William and Mary, 1923
B.C.L., College of William and Mary, 1926

DOCTOR OF HUMANE LETTERS

C. Vann Woodward — New Haven, Conn.
Ph.B., Emory University, 1930
M.A., Columbia University, 1932
Ph.D., University of North Carolina, 1937
M.A. (Hon.), Oxford University, 1954

**Degree Requirements Completed October 9, 1963.

DEGREES CONFERRED
Summer Session 1964

BACHELORS OF SCIENCE

John Thomas Eanes	Charles City County
Francine Fowler	Florham Park, N. J.
Rawley Harrison Fuller, III	South Boston
Vivian Gaetano	Newport News
John Christopher Pollard	Norwalk, Conn.
Jonathon Fred Regel	Flushing, N. Y.

BACHELORS OF ARTS

David Allen	Hampton
Peter Barr Atherton	Tustin, Calif.
Hugh Martin Baker, Jr.	Williamsburg
Margaret Gates Baker	Williamsburg
Michael Carter Bartlett	Fredericksburg
James Oakley Baxter	Lee Hall
Donald Cameron Beck	Winchester, Mass.
Gene Famous Birdsong	Suffolk
Elizabeth Via Boone	Williamsburg
Thomas Power Brennan	Sayville, N. Y.
Dequanta Joy Collinsworth	Newport News
Sydney Buttrill Costello	Hampton
Martha Boon Crouse	Newport News
Fredrica Lucinda Dudley	Houston, Texas
Kristine Lynn Fortson	Falls Church
Barry Gene Fratkin	Richmond
Eugene Belden Galusha	Williamsburg
Thomas Barham Gardner	Norfolk
Frederick William Gaston	Washington, D. C.
Edith Purvis Gregory	Williamsburg
Ruth Hudnall Gresham	Newport News
Thomas David Haley	Stanleytown
Cynthia Anne Harris	Summit, N. J.
John Arlington Hazelgrove	Richmond
William Sinclair Heyniger, IV	Mystic, Conn.
William Anton House	Staunton

Brenda Lee Hudson	West Point
Peter M. Jenks	Tolland, Conn.
Robert Merle Joynt	Norfolk
Sarah Jane Kemp	Alexandria
Peter Lehmann Komelski	Leonardo, N. J.
Richard Emil Lutringer	Naples, Fla.
Steven A. Merril	Millcrest Heights, Md.
Elizabeth Anne Morris	Martinsville
Jean Dian Moss	Fort Monroe
David Wayne O'Bryan	Richmond
William Franklin Overacre	Lynchburg
Evelyn Shaw Pearce	Charlottesville
Jane Eileen Pierpoint	Hamilton
Frank Robert Plichta	Newport News
Edith Louise Pruss	Falls Church
William Terrial Roach	Surry
Eleanor Yates Schueler	Northumberland, Pa.
Richard Russell Seppala	Pembroke, Mass.
Michael Owen Smith	Palatine, Ill.
Richard John Spinelli	Teaneck, N. J.
Patricia Specht Sprouse	San Francisco, Calif
Mack George Stolarski	Williamsburg
Gay Vaughn Talbert	Williamsburg
Joan Schafer Tatum	Newport News
Bruce Earl Titus	New Canaan, Conn.
Sandra Lee Tuck	Richmond
Jerry Lloyd Ward	Urbanna
Karl David Yunker	McLean
Paul Martin Zisman	Arlington

BACHELOR OF CIVIL LAW

Philip James LaSusa, Jr. — Highland, N. Y.
A.B., The University of Rochester, 1961

MASTERS OF TEACHING SCIENCE

Richard Edward Babb — Norfolk
B.S., United States Naval Academy, 1935
(Physics)

Edwin Lyon Davis — Westminster, Md.
B.S., Salem College, 1960
(Physics)

Harold Heydenreich DeWald — Emlenton, Pa.
B.S., Allegheny College, 1952
(Physics)

Clarice Dorothy Fink — East Cleveland, O.
B.S., Ursuline College, 1960
(Mathematics)

James Fletcher Harris — Danville
B.S. in Education, Western Carolina College, 1957
(Chemistry)

James Clemmons Haught — Funkstown, Md.
B.S. Secondary Education, West Virginia University, 1959
(Biology)

John Henry Earl Hoppe, Jr. — Petersburg
B.S., Washington College, 1940
M.A. in Education, The George Washington University, 1959
(Mathematics)

Charles Edmund Jeter — Arlington
A.B., University of Virginia, 1949
(Physics)

Robert F. Kimberlin, II — Libertyville, Ill.
B.S., Eureka College, 1938
M.A., Education, Washington University, 1960
(Chemistry)

J. A. Linn — Virginia Beach
B.S. in Secondary Education, Norfolk Division of The College of William and Mary, 1960
(Physics)

Leo Mitkievicz — Williamsburg
B.S., College of William and Mary, 1939
(Physics)

William T. Peruzzi — Scituate, Mass.
B.S., Boston University School of Education, 1960
(Biology)

Elijah Graham Pillow — Newport News
A.B., College of William and Mary, 1954
(Physics)

GERALD J. RAYMOND — Paradise, Pa.
B.S., Franklin and Marshall College, 1949
(Biology)

HOWARD HERMAN SCHUMACHER, JR. — Dayton, Ohio
B.S. in Education, University of Dayton, 1957
(Physics)

RUTH ALICE W. SLOOP — Dublin
A.B., Meredith College, 1936
(Chemistry)

DARWIN HOBGOOD SOWERS — Greensboro, N. C.
B.S. in Mathematics Education, North Carolina State College, 1959
(Mathematics)

MARY FISCHER WAVRIK — Baltimore, Md.
A.B., Goucher College, 1956
(Physics)

MASTERS OF EDUCATION

GEORGE KEBBE ANDERSON — Hampton
B.S. in Business Administration, Rhode Island State College, 1939

JAMES WILLIAM ARMSTRONG — Norfolk
B.S. in Secondary Education, The Norfolk College of William and Mary, 1962

DOROTHY JEAN ATKINSON — Newport News
A.B., Mary Baldwin College, 1951

WARREN RAY BENNETT — Hampton
B.S., Education, Concord College, 1958

REBECCA RIDDICK BRADSHAW — Suffolk
B.S. in Elementary Education, Longwood College, 1957

BETTY BURTON BROOKS — West Point
B.S. in Education, Arkansas State Teachers College, 1935

ALICE KATHLEEN BURNETTE — Lynchburg
A.B., Lynchburg College, 1947

NANCY NATALIE CARTER — Annapolis, Md.
A.B., Western College for Women, 1963

GEORGE WALTER CHANDLER — Virginia Beach
B.S. in Secondary Education, Old Dominion College, 1963

Mary Wright Cofer — Hampton
A.B., College of William and Mary, 1956

David Livingston Daniels — Norfolk
A.B., Lynchburg College, 1955

Mary Joan Davis — Bassett
B.S. in Secondary Education, Longwood College, 1957

Jack Edwin Dent, Jr. — Williamsburg
A.B., The Norfolk College of William and Mary, 1961

Shirley Temperley Downs — Richmond
B.S. in Social Science, Richmond Division of the College of William and Mary, 1949

Delano Alex Driver — Richmond
B.S., East Carolina College, 1959

Carol Jane Smith Duby — Williamsburg
B.S., Rhode Island School of Design, 1959

William Ramsey Foley — Williamsburg
A.B., The George Washington University, 1963

Mary Fry Fritch — Virginia Beach
B.S. in Physical Education and Recreational Leadership, The College of William and Mary, Richmond Division, 1942

Marion Steel Giedemann — Seaford
B.S. in Education, The University of Wisconsin, 1941

Gene Glasco — Virginia Beach
B.B.A., Wake Forest College, 1960

Louise Eubank Gray — Saluda
A.B., Westhampton College, University of Richmond, 1928

J. Frank Hensley, Jr. — Richmond
B.S., Lincoln Memorial University, 1955

Betty Ann Hubbard — Norfolk
B.S., College of William and Mary, 1951

Romine Chappell Hundley — Sedley
B.S. in Education, Madison College, 1945

William Hobson Jeter, Jr. — Virginia Beach
B.S., Presbyterian College, 1961

Leonard Fredolf Johansson — Petersburg
A.B., Columbia Union College, 1959

Wilbur Everette Johnson, Jr. — Roanoke
A.B., College of William and Mary, 1963

David Irving Joyner — Portsmouth
B.S., Virginia Polytechnic Institute, 1958

JOHN WILLIAM KILPATRICK — Williamsburg
B.S., Atlantic Christian College, 1960

WILLIAM WILLIS KITCHIN — Newport News
A.B., Washington and Lee University, 1948

WILMA CLARICE EVANS LUCK — Hampton
B.S. in Elementary Education, The Norfolk College of William and Mary, 1961

WILLIAM MALTBY — Winchester, Hampshire, England
B.S., Exeter University, England, 1962

MARY REBECCA MANN — Suffolk
A.B. in Secondary Education, Longwood College, 1952

ALICE PORTER MARSHALL — Norfolk
B.S. in Education, Asheville Normal and Teachers College, 1933

MILA HILLARD MEIER — Baytown, Texas
B.S. in Elementary Education, The University of Texas, 1962

MITCHELL J. MORRIS — Rocky Mount
B.S. in Education, Radford College, 1951

ROBERT KENT NICEWANDER — Princeton, W. Va.
B.S. in Education, Concord College, 1961

MARGARET CRIST OBER — Norfolk
A.B., The American University, 1936

MODRA SANDERS PARRIS — Portsmouth
B.S. in Elementary Education, The Norfolk College of William and Mary, 1961

LINDA JEAN PHILLIPS — Hampton
B.S., Longwood College, 1959

ELEANOR WATSON RICH — Portsmouth
A.B. in Education, Central State College, 1947

HERBERT ALLEN RICHWINE — Richmond
A.B., Richmond College, University of Richmond, 1957

LOUISE HOOKER SLAVENS — Virginia Beach
B.S., Indiana State Teachers College, 1954

THELMA MIDDLETON SMITH — Poquoson
B.S. Western Carolina Teachers College, 1942

SAMUEL MASON SPRAGUE — Parksley
A.B., Western Maryland College, 1933

VIRGINIA HOFLER VETETO — Norfolk
A.B., East Carolina College, 1940

Dorothy Booth Walker — Newport News
A.B., College of William and Mary, 1956

Ruth Osborne Watts — Portsmouth
A.B. in Education, University of Kentucky, 1946

Susan D. Witham — North Bridgton, Maine
B.S. in Education, Tufts University, 1956

Kenneth Raynor Wynne, Jr. — East Chesapeake
B.S., East Carolina College, 1959

MASTERS OF ARTS

Robert Charles Bolander — Rockford, Ill.
A.B., College of William and Mary, 1962
(History)

Beverly Roane Campbell — Virginia Beach
A.B., Norfolk Division of The College of William and Mary, 1960
(Mathematics)

Neil Hiden Drummond — Newport News
B.S., College of William and Mary, 1962
(Mathematics)

William Martin Kelso — Williamsburg
A.B., Baldwin-Wallace College, 1963
(History)

Adrian Russell Lawler — Oak Ridge, Tenn.
A.B., The University of Rochester, 1962
(Marine Science)

Anita Joy Lonnes — Western Springs, Ill.
A.B., Lawrence College, 1963
(History)

Charles Lee Rutherford — Liberty, Mo.
A.B., William Jewell College, 1961
(Marine Science)

Leon Francis Sagan — Odenton, Md.
B.S., State Teachers College, Towson, 1962
(Mathematics)

Evelyn McNeill Thomas — Longview, Texas
A.B., Rice University, 1962
(History)

Robert Gale Wilson — Newport News
B.S., Emory and Henry College, 1958
(Physics)

ENROLLMENT
Session 1964-1965

	Men	*Women*	*Totals*
Freshmen	495	616	1111
Sophomores	323	267	590
Juniors	362	274	636
Seniors	223	234	457
BCL Candidates	121	3	124
Graduate Candidates	177	36	213
Unclassified	50	40	90
	1751	1470	3221

GEOGRAPHICAL DISTRIBUTION OF STUDENTS
Session 1964-1965

Alabama	7
Alaska	1
Arizona	1
Arkansas	3
California	21
Colorado	1
Connecticut	37
Delaware	16
District of Columbia	20
Florida	45
Georgia	13
Hawaii	2
Illinois	11
Indiana	10
Iowa	6
Kansas	2
Kentucky	17
Louisiana	2
Maine	2
Maryland	77

Massachusetts	48
Michigan	9
Minnesota	7
Mississippi	8
Missouri	8
Montana	2
Nebraska	3
New Hampshire	3
New Jersey	106
New Mexico	3
New York	104
North Carolina	30
Ohio	45
Oklahoma	3
Oregon	3
Pennsylvania	148
Rhode Island	13
South Carolina	19
South Dakota	1
Tennessee	17
Texas	16
Vermont	2
Virginia	2282
Washington	2
West Virginia	15
Wisconsin	5
Argentina	1
Australia	1
Cambodia	2
Canada	5
Canal Zone	1
China	1
Columbia, S. A.	1
Dominican Republic	2
England	7
Italy	1
Japan	1
Switzerland	1
Total	3221

Summer Session 1964

	Men	*Women*	*Total*
Alabama	0	2	2
Arizona	1	2	3
Arkansas	0	3	3
California	4	2	6
Colorado	2	3	5
Connecticut	14	1	15
Delaware	4	0	4
District of Columbia	3	1	4
Florida	7	8	15
Georgia	5	6	11
Illinois	5	2	7
Indiana	3	2	5
Iowa	1	3	4
Kansas	1	0	1
Kentucky	5	2	7
Louisiana	0	1	1
Maine	0	1	1
Maryland	17	9	26
Massachusetts	9	2	11
Michigan	6	1	7
Minnesota	0	2	2
Mississippi	0	3	3
Missouri	2	3	5
Nevada	2	0	2
New Hampshire	3	0	3
Nebraska	0	1	1
New Jersey	15	7	22
New Mexico	1	0	1
New York	24	7	31
North Carolina	11	12	23
North Dakota	6	9	15
Oklahoma	1	3	4
Pennsylvania	32	11	43
Rhode Island	4	1	5
South Carolina	4	9	13
South Dakota	1	2	3
Tennessee	2	2	4
Texas	3	5	8
Virginia	470	616	1086
Washington	1	0	1
West Virginia	8	8	12
Wisconsin	2	1	3

	Men	*Women*	*Total*
Canada	0	1	1
China	0	1	1
England	1	0	1
Norway	1	0	1
Totals	677	755	1432

INDEX

	Page
Absence from Classes and from College	56-57
Absence Probation	57
Accountancy	112-113
Activities, Extracurricular	43-53, 77
Administration, Officers of	9-10
Admission	76-83
Advanced Credit and Placement	79-80
Alumni, The Society of the	68-69
Ancient Languages	96-102
Anthropology	298-301
Applied Music, Courses in	256-258
Art	164-167
Athletics	52-53
Barrett Hall, Kate Walter	40
Biology	103-110
Board	72-73
Board of Visitors	8
Books, Cost of	74
Bookstore, College	74
Brafferton, The	37
Brown Hall	38
Bryan Memorial Hall	39
Buildings and Grounds	37-42
Business Administration	111-118
Cafeteria	39
Calendar, College	v
Cary Field Park	39
Cashing Students' Checks	71-72
Certification of Teachers	134
Chancellors of The College	viii
Chandler Hall	40
Chemistry	119-124
Classification of Students	55
College Building (Sir Christopher Wren Building)	37
College News Bureau	321
College Woods	37
Committees of the Board of Visitors	8-9
Committees of the Faculty	35-36
Concentration	86, 89
Concerts	49-50

PAGE

Contents iii
Continuance in College 66
Correspondence Directory ii
Counseling 66
Course, Types and Numbers 86, 96
Credit from Other Institutions 84

Dean's List 54
Debate and Forensics 48-49
Degrees 84, 93, 193
Degrees Conferred, Regular Session 1963-1964 350-370
Degrees Conferred Summer Session, 1964 371-378
Dining Hall, College 39
Discipline 59-64
Distribution Requirements 86-90
Doctor of Philosophy Degree
  Marine Science 216
  Physics 280
Dormitories for Men 38-39
Dormitories for Women 40
Dramatic Art, Courses of Instruction in 302-304

Economics 125-131
Education, School of 132, 133
Employment 341
Endowment Funds 329
English Language and Literature 158-163
Enrollment—Session 1964-1965 379
Entrance, Subjects Accepted for 77, 86
Evening College 325
Ewell Hall 38
Examinations 58
Exhibitions 49-50
Expenses 72-75
Extension Division 327

Faculty 11-33
Fee, Academic Costume 74
Fee, Diploma 74
Fee, Laundry 72
Fee, Room Change 75
Fee, Room Reservation 75
Fees, Explanation of 72-75
Fees and Expenses, General Information 70-75
Financial Aid 333-345
Fine Arts 164-167
Fine Arts Building 39

PAGE

Fraternities 46-47
Fraternity Lodges 38
Freshman Scholarships 333-334
Friends of the College 329

Geographical Distribution of Students, 1964-1965 379
Geographical Distribution of Students—Summer Session 1964 381
Geology 168-171
Gifts and Bequests 330
Government 172-178
Grading, System of 85
Graduate Project and Thesis Courses 93-95
Gymnasium, George P. Blow Memorial 38

Health Service 65-66
Health Service Staff 34
History of the College 1-5
History 179-185
Home Economics 186-188
Honor Awards 346-349
Honor Societies 45-46
Honor System 6-7
Honors Program 91-93
Humanities 188

Infirmary, David J. King 39
Institute of Early American History and Culture 318
Instruction, Officers of 11-33
Interest Groups 45-46

James Goold Cutler Foundation 321
Jefferson Hall 40

Landrum Hall 40
Law 189-207
Lectures 49-50
Library, College 37, 41-42
Library Staff 34
Library, Swem 37-38
Loan Funds 341

Marine Science, School of 208-224
Marshall-Wythe Hall 38
Marshall-Wythe School of Government and Citizenship 321
Marshall-Wythe School of Law 189-207
Marshall-Wythe Symposium 321

PAGE

Masters Degrees 93-94
Biology 107
Chemistry 122
Education 133, 135
History 183
Law and Taxation 204-205
Marine Science 215
Mathematics 230
Physics 280
Psychology 290
Mathematics 225-232
Matoaka Park (College Woods) 37
Medical Attention 65-66, 271, 274
Medical Staff 34
Military Science and Tactics 233-238
Modern Languages 239-249
Monroe Hall 38
Music 250-258
Musical Activities 50-51

Non-Virginia Students, Tuition and Fees 72, 74

Officers of the College 8-10
Officers of Administration 9-10
Officers of Instruction 11-33
Old Dominion Hall 38

Phi Beta Kappa Hall 40
Phi Beta Kappa Society 45
Philosophy 259-263
Physical Education for Men 264-271
Physical Education for Women 272-274
Physical Laboratory, William Small 40
Physics 275-284
Placement 66
Pre-Dental Program 307
Pre-Engineering Program 311
Pre-Forestry Program 316
Pre-Medical Program 307
Pre-Professional Programs 307
President's House, The 37
Presidents of the College vii
Prizes 342-349
Program, Student's 54-55
Psychology 285-291

PAGE

Public Performances and Parties 62
Publications, Student 47-48

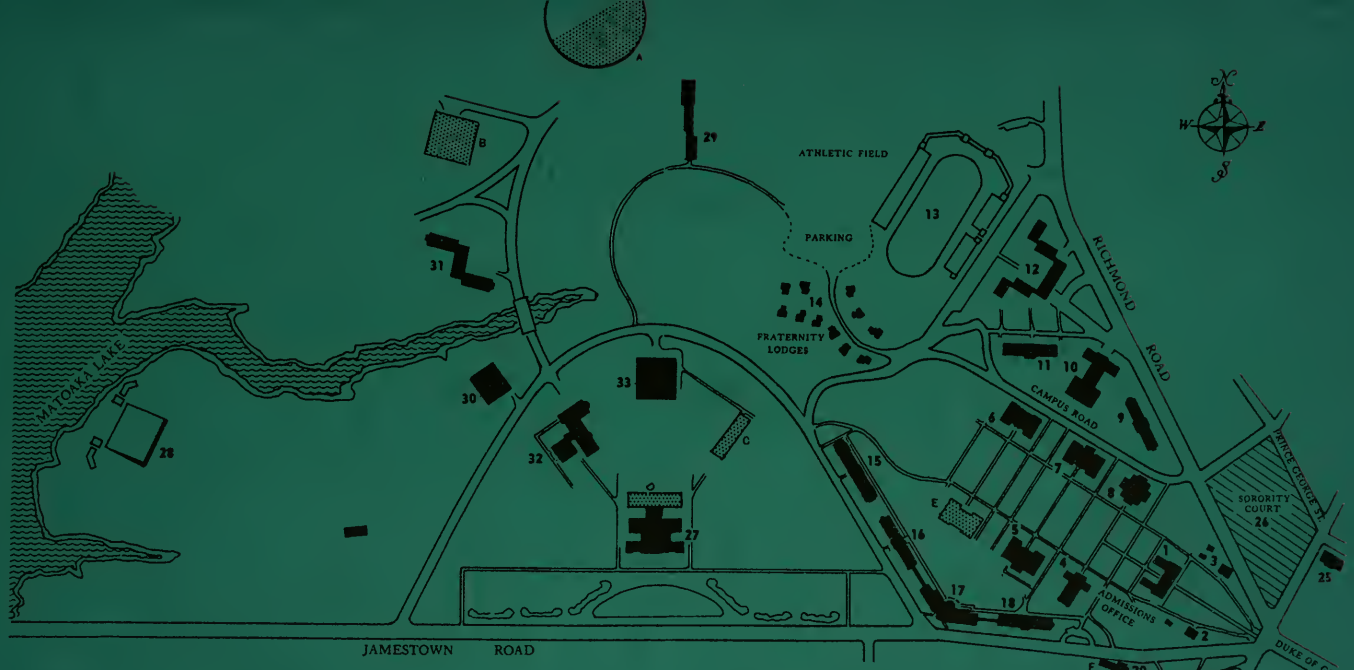
Quality Points 85

Registration, Changes in 55
Regulations, College 54-64
Regulations on Withdrawal for Military Service 55-56
Religious Life 52
Reports to Parents 54
Requirements for Degrees 85-86, 193
Residence 59
Residence Requirements for Degrees 86
Rogers Hall 38
Room Deposits 75
Room Rent 73
Reserve Officers' Training Corps 233-234

Scholarships 333
Secretarial Science 292-293
Sociology 294-301
Sororities 47
Space Laboratory, Operation and Management of 320
Special Privileges 63
Speech, Courses in 304-306
Student's Accounts Due 70
Student Employment 341
Student Government 44
Students Not from Virginia 72, 74
Summer Session 322
Sunken Garden 37
Supervision of Students 54-64

Taliaferro Hall 39
Taxation 204, 205
Teacher Education 132
Television and Radio 51-52
Theatre, Courses in 302-304
Theatre, The William and Mary 48
Trinkle Hall 39
Tuition 72, 74, 323, 326
Tyler Hall 39

Washington Hall 38
Women's Dormitory Association 44
Withdrawal from College 55-56
Work-Study Plan 341



1. SIR CHRISTOPHER WREN BUILDING
2. THE BRAFFERTON
3. THE PRESIDENT'S HOUSE
4. EWELL HALL
5. WASHINGTON HALL
6. MARSHALL-WYTHE HALL
7. ROGERS HALL
8. OLD LIBRARY
9. MONROE HALL
10. BLOW GYMNASIUM
11. OLD DOMINION HALL
12. BRYAN HALL
13. CARY FIELD
14. FRATERNITY LODGES
15. LANDRUM HALL
16. CHANDLER HALL
17. BARRETT HALL
18. JEFFERSON HALL
19. TALIAFERRO HALL
20. FINE ARTS BUILDING
21. CAMPUS CENTER
22. TRINKLE HALL
23. KING INFIRMARY
24. TYLER HALL
25. BROWN HALL
26. SORORITY COURT
27. PHI BETA KAPPA MEMORIAL HALL
28. LAKE MATOAKA DRAMA AMPHITHEATRE
29. YATES HALL
30. ADAIR GYMNASIUM
31. duPONT DORMITORY
32. WILLIAM SMALL PHYSICAL LABORATORY
33. EARL GREGG SWEM LIBRARY

PROPOSED NEAR FUTURE CONSTRUCTION

A. First unit of ROTC—Men's physical education building.
B. Dining hall.
C. Life Sciences building.
D. Fine Arts wing of Phi Beta Kappa Memorial Hall.
E. General classroom building.
F. New bookstore.